

Figure 1: HIV-1 gp41 Structure and Peptides

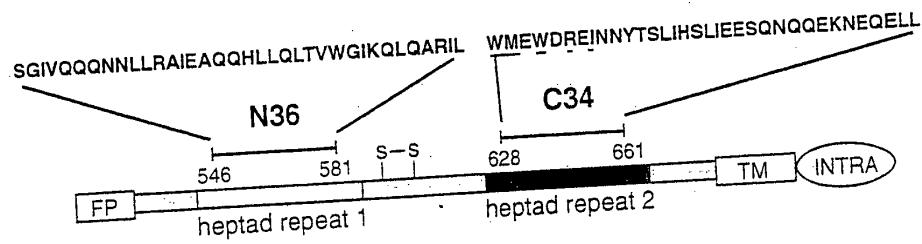


Figure 2: Correlation of C34 Inhibitory Potency With N36/C34 Stability

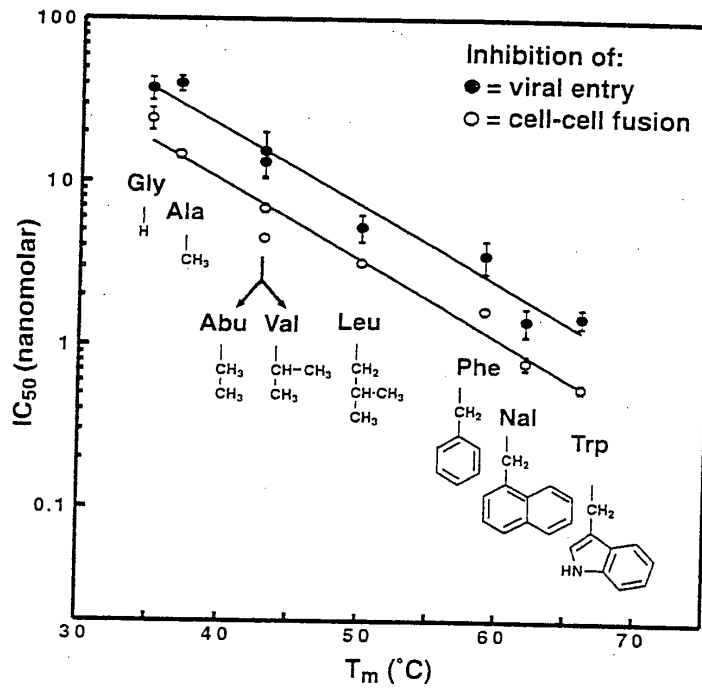


Figure 3: D-peptide Sequences

D10pep1 : Ac- G A C E A R H R E W A W L C A A - CONH2
D10pep1a: Ac - K K G A C E A R H R E W A W L C A A - CONH2
D10pep3 : Ac - K K G A C G L G Q E E W F W L C A A - CONH2
D10pep4 : Ac - G A C D L K A K E W F W L C A A - CONH2
D10pep5 : Ac - K K G A C E L L G W E W A W L C A A - CONH2
D10pep5a: Ac - K K K K G A C E L L G W E W A W L C A A - CONH2
D10pep6 : Ac - G A C S R S Q P E W E W L C A A - CONH2
D10pep6a: Ac - K K G A C S R S Q P E W E W L C A A - CONH2
D10pep7a: Ac - K K G A C L L R A P E W G W L C A A - CONH2
D10pep10: Ac - K K G A C M R G E W E W S W L C A A - CONH2
D10pep12: Ac - K K G A C P P L N K E W A W L C A A - CONH2
Consensus Sequence C X X X X X E W X W L C

Where:

G = glycine
A = alanine
C = cysteine
D = aspartic acid
L = leucine
K = lysine
E = glutamic acid
W = tryptophan
F = phenylalanine
R = arginine
H = histidine
S = serine
Q = glutamine

001221 2125400

Figure 4: Mirror-Image Phage Display with the D-IQN17 Target

1. Perform rounds of phage selection to identify binders to D-IQN17.

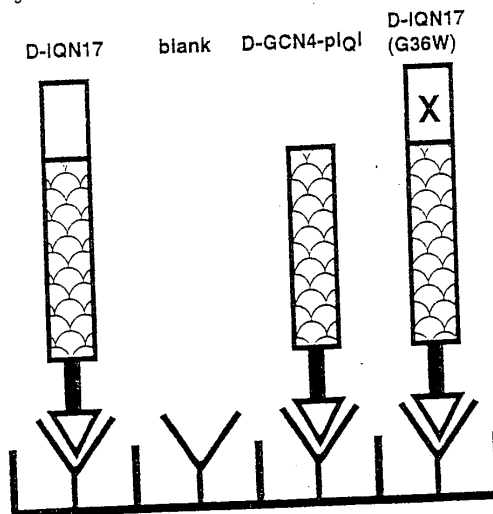
D-IQN17



Phage Library:
 C/SXXXXXXXXXXC/S

← linker with trypsin site
 ← biotin

2. Sequence individual phage clones
3. Test for specificity of binding. Determine if the phage bind to the gp41 region of D-IQN17.



4. Synthesize D-peptides.
5. Assay anti-HIV activity of D-peptides.

Relationship of D-peptides to IQN17

Figure 5A

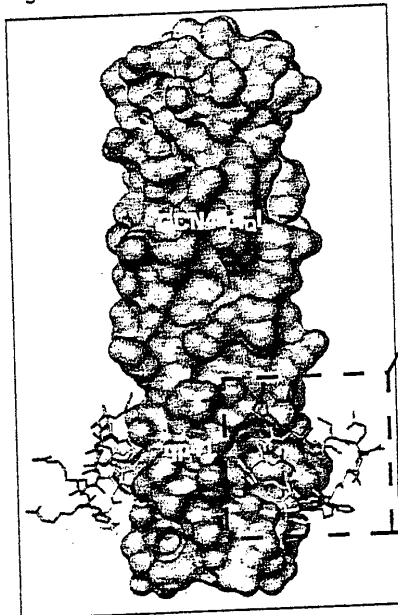
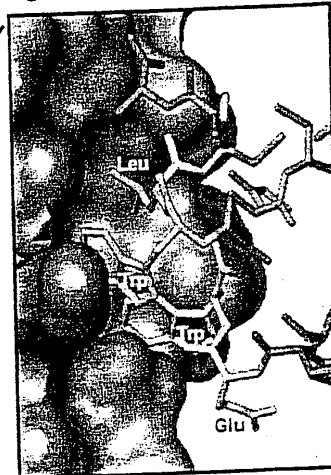


Figure 5B



00745742.122400

Syncytia Assays

Figure 6A

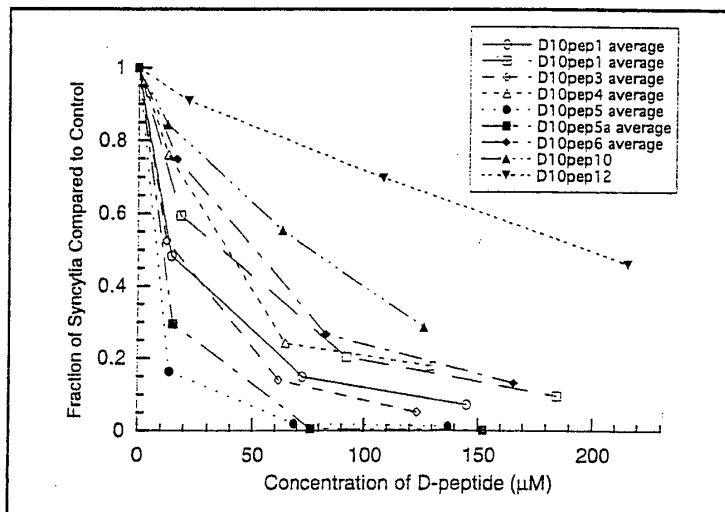


Figure 6B: IC₅₀ Data for D-Peptides:

D-Peptide	Approximate IC ₅₀ Value (from one or more experiments)
D10pep1	2×10^{-5} M
D10pep1A	3×10^{-5} M
D10pep3	1×10^{-5} M
D10pep4	3×10^{-5} M
D10pep5	3×10^{-6} M
D10pep5a	6×10^{-6} M
D10pep6	3×10^{-5} M
D10pep7a	4×10^{-5} M
Dpep10	6×10^{-5} M
Dpep12	2×10^{-4} M

D10pep3 } show anti-viral effects
 D10pep4 } with IC₅₀ values of
 D10pep5 } less than 1×10^{-4} M.

REMARK 3
 REMARK 3 REFINEMENT
 REMARK 3 PROGRAM : CNS 0.5
 REMARK 3 AUTHORS : BRUNGER, ADAMS, CLORE, DELANO,
 REMARK 3 GROS, GROSSE-KUNSTLEVE, JIANG,
 REMARK 3 KUSZEWSKI, NILGES, PANNU, READ,
 REMARK 3 RICE, SIMONSON, WARREN
 REMARK 3
 REMARK 3 DATA USED IN REFINEMENT.
 REMARK 3 RESOLUTION RANGE HIGH (ANGSTROMS) : 1.50
 REMARK 3 RESOLUTION RANGE LOW (ANGSTROMS) : 10.00
 REMARK 3 DATA CUTOFF (SIGMA(F)) : 0.0
 REMARK 3 DATA CUTOFF HIGH (ABS(F)) : 646169.44
 REMARK 3 DATA CUTOFF LOW (ABS(F)) : 0.000000
 REMARK 3 DATA CUTOFF LOW (ABS(F)) : 0.000000
 REMARK 3 COMPLETENESS (WORKING+TEST) (%) : 94.6
 REMARK 3 NUMBER OF REFLECTIONS : 13549
 REMARK 3
 REMARK 3 FIT TO DATA USED IN REFINEMENT.
 REMARK 3 CROSS-VALIDATION METHOD : THROUGHOUT
 REMARK 3 FREE R VALUE TEST SET SELECTION : RANDOM
 REMARK 3 R VALUE (WORKING SET) : 0.214
 REMARK 3 FREE R VALUE : 0.245
 REMARK 3 FREE R VALUE TEST SET SIZE (%) : 10.1
 REMARK 3 FREE R VALUE TEST SET COUNT : 1362
 REMARK 3 ESTIMATED ERROR OF FREE R VALUE : 0.007
 REMARK 3
 REMARK 3 FIT IN THE HIGHEST RESOLUTION BIN.
 REMARK 3 TOTAL NUMBER OF BINS USED : 6
 REMARK 3 BIN RESOLUTION RANGE HIGH (A) : 1.50
 REMARK 3 BIN RESOLUTION RANGE LOW (A) : 1.59
 REMARK 3 BIN COMPLETENESS (WORKING+TEST) (%) : 96.1
 REMARK 3 REFLECTIONS IN BIN (WORKING SET) : 2008
 REMARK 3 BIN R VALUE (WORKING SET) : 0.233
 REMARK 3 BIN FREE R VALUE : 0.270
 REMARK 3 BIN FREE R VALUE TEST SET SIZE (%) : 9.8
 REMARK 3 BIN FREE R VALUE TEST SET COUNT : 219
 REMARK 3 ESTIMATED ERROR OF BIN FREE R VALUE : 0.018
 REMARK 3
 REMARK 3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
 REMARK 3 PROTEIN ATOMS : 0
 REMARK 3 NUCLEIC ACID ATOMS : 0
 REMARK 3 HETEROGEN ATOMS : 0
 REMARK 3 SOLVENT ATOMS : 0
 REMARK 3
 REMARK 3 B VALUES.
 REMARK 3 FROM WILSON PLOT (A**2) : 21.6
 REMARK 3 MEAN B VALUE (OVERALL, A**2) : 29.7
 REMARK 3 OVERALL ANISOTROPIC B VALUE.
 REMARK 3 B11 (A**2) : 3.61
 REMARK 3 B22 (A**2) : 3.61
 REMARK 3 B33 (A**2) : -7.22
 REMARK 3 B12 (A**2) : 1.74
 REMARK 3 B13 (A**2) : 0.00
 REMARK 3 B23 (A**2) : 0.00
 REMARK 3
 REMARK 3 BULK SOLVENT MODELING.
 REMARK 3 METHOD USED : FLAT MODEL
 REMARK 3 KSOL : 0.394054

Figure 7A

REMARK 3 BSOL : 58.3445 (A**2)
REMARK 3
REMARK 3 ESTIMATED COORDINATE ERROR.
REMARK 3 ESD FROM LUZZATI PLOT (A) : 0.18
REMARK 3 ESD FROM SIGMAA (A) : 0.09
REMARK 3 LOW RESOLUTION CUTOFF (A) : 5.00
REMARK 3
REMARK 3 CROSS-VALIDATED ESTIMATED COORDINATE ERROR.
REMARK 3 ESD FROM C-V LUZZATI PLOT (A) : 0.20
REMARK 3 ESD FROM C-V SIGMAA (A) : 0.12
REMARK 3
REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES.
REMARK 3 BOND LENGTHS (A) : 0.012
REMARK 3 BOND ANGLES (DEGREES) : 1.5
REMARK 3 DIHEDRAL ANGLES (DEGREES) : 15.7
REMARK 3 IMPROPER ANGLES (DEGREES) : 1.00
REMARK 3
REMARK 3 ISOTROPIC THERMAL MODEL : RESTRAINED
REMARK 3
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS. RMS SIGMA
REMARK 3 MAIN-CHAIN BOND (A**2) : 0.956 ; 2.0
REMARK 3 MAIN-CHAIN ANGLE (A**2) : 1.503 ; 3.0
REMARK 3 SIDE-CHAIN BOND (A**2) : 1.853 ; 3.0
REMARK 3 SIDE-CHAIN ANGLE (A**2) : 2.676 ; 3.5
REMARK 3
REMARK 3 NCS MODEL : NONE
REMARK 3
REMARK 3 NCS RESTRAINTS. RMS SIGMA/WEIGHT
REMARK 3 GROUP 1 POSITIONAL (A) : NULL ; NULL
REMARK 3 GROUP 1 B-FACTOR (A**2) : NULL ; NULL
REMARK 3
REMARK 3 PARAMETER FILE 1 : protein_rep.d.param
REMARK 3 PARAMETER FILE 2 : CNS_TOPPAR/water_rep.param
REMARK 3 PARAMETER FILE 3 : CNS_TOPPAR/ion.param
REMARK 3 TOPOLOGY FILE 1 : CNS_TOPPAR/protein.top
REMARK 3 TOPOLOGY FILE 2 : CNS_TOPPAR/water.top
REMARK 3 TOPOLOGY FILE 3 : CNS_TOPPAR/ion.top
REMARK 3
REMARK 3 OTHER REFINEMENT REMARKS: NULL
SEQRES 1 A 214 ACE ARG MET LYS GLN ILE GLU ASP LYS ILE GLU GLU ILE
SEQRES 2 A 214 GLU SER LYS GLN LYS LYS ILE GLU ASN GLU ILE ALA ARG
SEQRES 3 A 214 ILE LYS LYS LEU LEU GLN LEU THR VAL TRP GLY ILE LYS
SEQRES 4 A 214 GLN LEU GLN ALA ARG ILE LEU ACE DLY DLA DCS DLU DLA
SEQRES 5 A 214 DRG DIS DRG DLU DRP DLA DRP DEU DCS DLA DLA CL WAT
SEQRES 6 A 214 WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT
SEQRES 7 A 214 WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT
SEQRES 8 A 214 WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT
SEQRES 9 A 214 WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT
SEQRES 10 A 214 WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT
SEQRES 11 A 214 WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT
SEQRES 12 A 214 WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT
SEQRES 13 A 214 WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT
SEQRES 14 A 214 WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT
SEQRES 15 A 214 WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT
SEQRES 16 A 214 WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT WAT
SEQRES 17 A 214 WAT WAT WAT WAT WAT WAT
CRYST1 41.829 41.829 84.817 90.00 90.00 120.00 P 3 2 1 6
ORIGX1 1.000000 0.000000 0.000000 0.000000

Figure 7B

Figure 7C

Docket # 0399.1192-008

ATOM	34	OE1	GLU	A	6	23.016	3.931	-16.557	1.00	52.29	A
ATOM	35	OE2	GLU	A	6	21.019	4.682	-17.116	1.00	52.25	A
ATOM	36	C	GLU	A	6	23.995	5.606	-11.904	1.00	49.32	A
ATOM	37	O	GLU	A	6	23.475	5.210	-10.859	1.00	49.24	A
ATOM	38	N	ASP	A	7	25.302	5.527	-12.128	1.00	48.32	A
ATOM	39	CA	ASP	A	7	26.178	4.970	-11.113	1.00	47.23	A
ATOM	40	CB	ASP	A	7	27.543	4.626	-11.703	1.00	47.92	A
ATOM	41	CG	ASP	A	7	27.450	3.585	-12.788	1.00	48.33	A
ATOM	42	OD1	ASP	A	7	26.526	2.741	-12.729	1.00	48.43	A
ATOM	43	OD2	ASP	A	7	28.310	3.606	-13.690	1.00	48.94	A
ATOM	44	C	ASP	A	7	26.344	5.920	-9.926	1.00	46.09	A
ATOM	45	O	ASP	A	7	26.283	5.481	-8.773	1.00	45.71	A
ATOM	46	N	LYS	A	8	26.551	7.209	-10.201	1.00	44.57	A
ATOM	47	CA	LYS	A	8	26.703	8.195	-9.129	1.00	43.01	A
ATOM	48	CB	LYS	A	8	26.959	9.598	-9.708	1.00	43.49	A
ATOM	49	CG	LYS	A	8	25.895	10.076	-10.695	1.00	44.78	A
ATOM	50	CD	LYS	A	8	26.423	11.125	-11.702	1.00	45.38	A
ATOM	51	CE	LYS	A	8	26.698	12.490	-11.068	1.00	45.64	A
ATOM	52	NZ	LYS	A	8	27.153	13.499	-12.069	1.00	45.55	A
ATOM	53	C	LYS	A	8	25.413	8.171	-8.318	1.00	41.20	A
ATOM	54	O	LYS	A	8	25.419	8.346	-7.098	1.00	40.61	A
ATOM	55	N	ILE	A	9	24.302	7.935	-9.002	1.00	39.40	A
ATOM	56	CA	ILE	A	9	23.015	7.859	-8.333	1.00	37.29	A
ATOM	57	CB	ILE	A	9	21.872	7.859	-9.358	1.00	37.14	A
ATOM	58	CG2	ILE	A	9	20.600	7.251	-8.759	1.00	37.06	A
ATOM	59	CG1	ILE	A	9	21.631	9.303	-9.812	1.00	36.95	A
ATOM	60	CD1	ILE	A	9	20.801	9.440	-11.066	1.00	36.89	A
ATOM	61	C	ILE	A	9	22.927	6.638	-7.418	1.00	36.07	A
ATOM	62	O	ILE	A	9	22.450	6.756	-6.292	1.00	34.70	A
ATOM	63	N	GLU	A	10	23.389	5.478	-7.887	1.00	34.23	A
ATOM	64	CA	GLU	A	10	23.353	4.260	-7.074	1.00	33.04	A
ATOM	65	CB	GLU	A	10	23.884	3.013	-7.847	1.00	32.87	A
ATOM	66	CG	GLU	A	10	23.890	1.705	-6.991	1.00	33.10	A
ATOM	67	CD	GLU	A	10	24.287	0.417	-7.747	1.00	33.56	A
ATOM	68	OE1	GLU	A	10	24.327	0.442	-8.999	1.00	34.07	A
ATOM	69	OE2	GLU	A	10	24.542	-0.630	-7.084	1.00	32.41	A
ATOM	70	C	GLU	A	10	24.244	4.556	-5.878	1.00	32.53	A
ATOM	71	O	GLU	A	10	24.009	4.069	-4.779	1.00	32.14	A
ATOM	72	N	GLU	A	11	25.259	5.380	-6.100	1.00	31.82	A
ATOM	73	CA	GLU	A	11	26.165	5.731	-5.018	1.00	31.36	A
ATOM	74	CB	GLU	A	11	27.409	6.445	-5.536	1.00	33.18	A
ATOM	75	CG	GLU	A	11	28.358	6.833	-4.423	1.00	35.22	A
ATOM	76	CD	GLU	A	11	29.105	5.643	-3.822	1.00	36.93	A
ATOM	77	OE1	GLU	A	11	28.488	4.580	-3.575	1.00	38.03	A
ATOM	78	OE2	GLU	A	11	30.322	5.774	-3.579	1.00	38.85	A
ATOM	79	C	GLU	A	11	25.456	6.621	-3.998	1.00	30.15	A
ATOM	80	O	GLU	A	11	25.556	6.377	-2.798	1.00	28.89	A
ATOM	81	N	ILE	A	12	24.737	7.640	-4.471	1.00	29.09	A
ATOM	82	CA	ILE	A	12	24.017	8.533	-3.550	1.00	28.34	A
ATOM	83	CB	ILE	A	12	23.301	9.675	-4.325	1.00	28.74	A
ATOM	84	CG2	ILE	A	12	22.206	10.281	-3.501	1.00	28.70	A
ATOM	85	CG1	ILE	A	12	24.327	10.743	-4.701	1.00	28.84	A
ATOM	86	CD1	ILE	A	12	23.922	11.603	-5.890	1.00	29.69	A
ATOM	87	C	ILE	A	12	22.985	7.725	-2.761	1.00	27.83	A
ATOM	88	O	ILE	A	12	22.802	7.948	-1.560	1.00	26.46	A
ATOM	89	N	GLU	A	13	22.312	6.790	-3.423	1.00	27.40	A
ATOM	90	CA	GLU	A	13	21.313	5.965	-2.762	1.00	26.92	A
ATOM	91	CB	GLU	A	13	20.579	5.087	-3.805	1.00	28.34	A

Figure 7D

ATOM	112	CG	GLU	A	13	19.760	5.937	-4.810	1.00	29.72	A
ATOM	113	CD	GLU	A	13	19.080	5.118	-5.900	1.00	31.77	A
ATOM	114	OE1	GLU	A	13	19.671	4.107	-6.331	1.00	33.64	A
ATOM	115	OE2	GLU	A	13	17.960	5.495	-6.327	1.00	32.24	A
ATOM	116	C	GLU	A	13	21.975	5.110	-1.678	1.00	26.36	A
ATOM	117	O	GLU	A	13	21.411	4.912	-0.597	1.00	25.75	A
ATOM	118	N	SER	A	14	23.179	4.629	-1.950	1.00	26.17	A
ATOM	119	CA	SER	A	14	23.999	3.792	-0.999	1.00	26.31	A
ATOM	120	CB	SER	A	14	25.184	3.224	-1.625	1.00	26.71	A
ATOM	121	OG	SER	A	14	25.954	2.470	-0.695	1.00	30.07	A
ATOM	122	C	SER	A	14	24.246	4.626	0.221	1.00	25.81	A
ATOM	123	O	SER	A	14	24.079	4.149	1.339	1.00	25.13	A
ATOM	124	N	LYS	A	15	24.753	5.840	0.009	1.00	24.70	A
ATOM	125	CA	LYS	A	15	25.091	6.713	1.151	1.00	25.41	A
ATOM	126	CB	LYS	A	15	25.805	7.971	0.672	1.00	26.20	A
ATOM	127	CG	LYS	A	15	27.256	7.762	0.285	1.00	29.07	A
ATOM	128	CD	LYS	A	15	27.875	9.077	-0.220	1.00	30.97	A
ATOM	129	CE	LYS	A	15	29.328	8.914	-0.603	1.00	32.08	A
ATOM	130	NZ	LYS	A	15	29.547	7.749	-1.502	1.00	34.63	A
ATOM	131	C	LYS	A	15	23.824	7.102	1.938	1.00	24.45	A
ATOM	132	O	LYS	A	15	23.862	7.279	3.171	1.00	24.50	A
ATOM	133	N	GLN	A	16	22.708	7.254	1.247	1.00	24.12	A
ATOM	134	CA	GLN	A	16	21.450	7.586	1.904	1.00	23.82	A
ATOM	135	CB	GLN	A	16	20.396	7.815	0.834	1.00	25.71	A
ATOM	136	CG	GLN	A	16	19.229	8.643	1.232	1.00	29.64	A
ATOM	137	CD	GLN	A	16	18.543	9.230	0.004	1.00	32.26	A
ATOM	138	OE1	GLN	A	16	18.015	8.498	-0.817	1.00	34.89	A
ATOM	139	NE2	GLN	A	16	18.569	10.556	-0.135	1.00	32.74	A
ATOM	140	C	GLN	A	16	21.027	6.447	2.838	1.00	23.67	A
ATOM	141	O	GLN	A	16	20.584	6.681	3.979	1.00	22.84	A
ATOM	142	N	LYS	A	17	21.160	5.214	2.365	1.00	22.83	A
ATOM	143	CA	LYS	A	17	20.798	4.057	3.179	1.00	22.59	A
ATOM	144	CB	LYS	A	17	20.939	2.756	2.357	1.00	22.86	A
ATOM	145	CG	LYS	A	17	20.340	1.539	3.055	1.00	26.69	A
ATOM	146	CD	LYS	A	17	18.837	1.579	2.932	1.00	29.27	A
ATOM	147	CE	LYS	A	17	18.177	0.937	4.051	1.00	31.75	A
ATOM	148	NZ	LYS	A	17	16.686	0.870	3.940	1.00	34.25	A
ATOM	149	C	LYS	A	17	21.718	4.015	4.406	1.00	22.31	A
ATOM	150	O	LYS	A	17	21.261	3.747	5.515	1.00	21.02	A
ATOM	151	N	LYS	A	18	23.001	4.306	4.223	1.00	21.81	A
ATOM	152	CA	LYS	A	18	23.909	4.302	5.374	1.00	21.74	A
ATOM	153	CB	LYS	A	18	2					

Figure 7E

Figure 7F

ATOM	228	CB	LYS	A	27	16.330	6.994	16.805	1.00	19.01	A
ATOM	229	CG	LYS	A	27	16.266	8.210	15.876	1.00	22.27	A
ATOM	230	CD	LYS	A	27	15.275	7.984	14.711	1.00	24.03	A
ATOM	231	CE	LYS	A	27	13.860	7.664	15.161	1.00	24.41	A
ATOM	232	NZ	LYS	A	27	13.173	8.848	15.714	1.00	27.04	A
ATOM	233	C	LYS	A	27	17.326	6.097	18.969	1.00	18.17	A
ATOM	234	O	LYS	A	27	16.767	6.388	20.013	1.00	18.33	A
ATOM	235	N	LYS	A	28	17.871	4.896	18.775	1.00	17.00	A
ATOM	236	CA	LYS	A	28	17.788	3.867	19.790	1.00	17.21	A
ATOM	237	CB	LYS	A	28	18.244	2.503	19.223	1.00	18.92	A
ATOM	238	CG	LYS	A	28	17.288	1.982	18.164	1.00	24.56	A
ATOM	239	CD	LYS	A	28	17.833	0.732	17.464	1.00	26.88	A
ATOM	240	CE	LYS	A	28	16.950	0.371	16.260	1.00	28.84	A
ATOM	241	NZ	LYS	A	28	17.284	-0.938	15.592	1.00	31.36	A
ATOM	242	C	LYS	A	28	18.618	4.257	21.016	1.00	17.36	A
ATOM	243	O	LYS	A	28	18.169	4.066	22.165	1.00	17.54	A
ATOM	244	N	LEU	A	29	19.794	4.835	20.793	1.00	16.84	A
ATOM	245	CA	LEU	A	29	20.642	5.234	21.912	1.00	16.41	A
ATOM	246	CB	LEU	A	29	22.077	5.529	21.453	1.00	16.26	A
ATOM	247	CG	LEU	A	29	23.050	6.048	22.515	1.00	16.76	A
ATOM	248	CD1	LEU	A	29	23.062	5.096	23.701	1.00	16.47	A
ATOM	249	CD2	LEU	A	29	24.450	6.201	21.885	1.00	17.67	A
ATOM	250	C	LEU	A	29	20.023	6.429	22.606	1.00	16.92	A
ATOM	251	O	LEU	A	29	20.027	6.503	23.859	1.00	16.36	A
ATOM	252	N	LEU	A	30	19.447	7.343	21.820	1.00	15.57	A
ATOM	253	CA	LEU	A	30	18.818	8.519	22.424	1.00	15.77	A
ATOM	254	CB	LEU	A	30	18.401	9.501	21.298	1.00	15.65	A
ATOM	255	CG	LEU	A	30	17.717	10.780	21.696	1.00	17.55	A
ATOM	256	CD1	LEU	A	30	18.557	11.504	22.722	1.00	16.71	A
ATOM	257	CD2	LEU	A	30	17.552	11.602	20.399	1.00	18.10	A
ATOM	258	C	LEU	A	30	17.659	8.067	23.288	1.00	16.42	A
ATOM	259	O	LEU	A	30	17.466	8.604	24.399	1.00	17.55	A
ATOM	260	N	GLN	A	31	16.903	7.053	22.862	1.00	16.79	A
ATOM	261	CA	GLN	A	31	15.816	6.564	23.692	1.00	18.13	A
ATOM	262	CB	GLN	A	31	14.945	5.593	22.886	1.00	21.45	A
ATOM	263	CG	GLN	A	31	14.119	6.358	21.834	1.00	24.92	A
ATOM	264	CD	GLN	A	31	13.196	7.437	22.424	1.00	26.81	A
ATOM	265	OE1	GLN	A	31	12.913	8.459	21.786	1.00	28.75	A
ATOM	266	NE2	GLN	A	31	12.713	7.207	23.648	1.00	29.86	A
ATOM	267	C	GLN	A	31	16.319	5.958	25.008	1.00	17.24	A
ATOM	268	O	GLN	A	31	15.655	6.092	26.038	1.00	17.79	A
ATOM	269	N	LEU	A	32	17.494	5.307	24.987	1.00	15.77	A
ATOM	270	CA	LEU	A	32	18.070	4.755	26.209	1.00	14.63	A
ATOM	271	CB	LEU	A	32	19.314	3.932	25.911	1.00	16.13	A
ATOM	272	CG	LEU	A	32	19.015	2.574	25.275	1.00	18.58	A
ATOM	273	CD1	LEU	A	32	20.291	1.961	24.770	1.00	20.70	A
ATOM	274	CD2	LEU	A	32	18.337	1.698	26.315	1.00	22.17	A
ATOM	275	C	LEU	A	32	18.449	5.895	27.140	1.00	13.68	A
ATOM	276	O	LEU	A	32	18.258	5.774	28.357	1.00	13.31	A
ATOM	277	N	THR	A	33	18.980	6.991	26.600	1.00	13.42	A
ATOM	278	CA	THR	A	33	19.348	8.081	27.500	1.00	12.96	A
ATOM	279	CB	THR	A	33	20.236	9.134	26.820	1.00	13.48	A
ATOM	280	OG1	THR	A	33	19.530	9.745	25.733	1.00	15.60	A
ATOM	281	CG2	THR	A	33	21.567	8.508	26.358	1.00	15.01	A
ATOM	282	C	THR	A	33	18.124	8.742	28.117	1.00	13.65	A
ATOM	283	O	THR	A	33	18.159	9.169	29.285	1.00	12.67	A
ATOM	284	N	VAL	A	34	17.038	8.838	27.345	1.00	13.20	A
ATOM	285	CA	VAL	A	34	15.804	9.410	27.863	1.00	13.38	A

Figure 7G

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ATOM	286	CB	VAL	A	34	14.708	9.498	26.773	1.00	14.31	A
ATOM	287	CG1	VAL	A	34	13.380	9.811	27.382	1.00	15.35	A
ATOM	288	CG2	VAL	A	34	15.096	10.517	25.710	1.00	15.04	A
ATOM	289	C	VAL	A	34	15.326	8.526	29.041	1.00	12.55	A
ATOM	290	O	VAL	A	34	14.997	9.016	30.131	1.00	13.43	A
ATOM	291	N	TRP	A	35	15.354	7.210	28.857	1.00	13.04	A
ATOM	292	CA	TRP	A	35	14.946	6.289	29.908	1.00	13.11	A
ATOM	293	CB	TRP	A	35	14.988	4.861	29.319	1.00	14.19	A
ATOM	294	CG	TRP	A	35	14.672	3.785	30.334	1.00	15.43	A
ATOM	295	CD2	TRP	A	35	15.610	3.101	31.191	1.00	15.26	A
ATOM	296	CE2	TRP	A	35	14.860	2.165	31.963	1.00	15.57	A
ATOM	297	CE3	TRP	A	35	16.990	3.196	31.393	1.00	15.49	A
ATOM	298	CD1	TRP	A	35	13.454	3.258	30.609	1.00	17.15	A
ATOM	299	NE1	TRP	A	35	13.553	2.281	31.572	1.00	17.80	A
ATOM	300	CZ2	TRP	A	35	15.459	1.324	32.905	1.00	15.31	A
ATOM	301	CZ3	TRP	A	35	17.600	2.355	32.349	1.00	16.17	A
ATOM	302	CH2	TRP	A	35	16.815	1.437	33.090	1.00	14.74	A
ATOM	303	C	TRP	A	35	15.869	6.429	31.141	1.00	13.13	A
ATOM	304	O	TRP	A	35	15.418	6.409	32.278	1.00	12.76	A
ATOM	305	N	GLY	A	36	17.176	6.556	30.893	1.00	12.50	A
ATOM	306	CA	GLY	A	36	18.118	6.668	31.998	1.00	12.50	A
ATOM	307	C	GLY	A	36	17.887	7.936	32.817	1.00	11.58	A
ATOM	308	O	GLY	A	36	17.917	7.875	34.042	1.00	11.70	A
ATOM	309	N	ILE	A	37	17.656	9.084	32.174	1.00	11.85	A
ATOM	310	CA	ILE	A	37	17.383	10.303	32.884	1.00	11.18	A
ATOM	311	CB	ILE	A	37	17.262	11.439	31.882	1.00	11.22	A
ATOM	312	CG2	ILE	A	37	16.680	12.660	32.600	1.00	13.25	A
ATOM	313	CG1	ILE	A	37	18.636	11.739	31.281	1.00	12.70	A
ATOM	314	CD1	ILE	A	37	18.571	12.560	29.955	1.00	13.00	A
ATOM	315	C	ILE	A	37	16.082	10.105	33.703	1.00	11.99	A
ATOM	316	O	ILE	A	37	16.026	10.526	34.860	1.00	12.24	A
ATOM	317	N	LYS	A	38	15.069	9.465	33.094	1.00	11.84	A
ATOM	318	CA	LYS	A	38	13.825	9.215	33.809	1.00	13.62	A
ATOM	319	CB	LYS	A	38	12.840	8.512	32.861	1.00	15.00	A
ATOM	320	CG	LYS	A	38	11.429	8.437	33.369	1.00	17.76	A
ATOM	321	CD	LYS	A	38	10.545	7.835	32.247	1.00	20.78	A
ATOM	322	CE	LYS	A	38	9.046	7.955	32.600	1.00	25.34	A
ATOM	323	NZ	LYS	A	38	8.721	7.069	33.722	1.00	29.03	A
ATOM	324	C	LYS	A	38	14.060	8.399	35.083	1.00	12.64	A
ATOM	325	O	LYS	A	38	13.490	8.724	36.163	1.00	12.58	A
ATOM	326	N	GLN	A	39	14.916	7.371	35.001	1.00	11.99	A

Figure 7H

Figure 71

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ATOM	402	SG	DCS	D	3	19.502	-2.991	25.840	1.00	30.98	E
ATOM	403	N	DLU	D	4	15.813	-4.736	28.474	1.00	31.68	B
ATOM	404	CA	DLU	D	4	14.782	-5.702	28.834	1.00	32.07	B
ATOM	405	CB	DLU	D	4	13.397	-5.090	28.574	1.00	33.43	B
ATOM	406	CG	DLU	D	4	13.060	-4.844	27.093	1.00	35.53	B
ATOM	407	CD	DLU	D	4	13.663	-3.568	26.500	1.00	36.29	B
ATOM	408	OE1	DLU	D	4	14.422	-2.859	27.182	1.00	37.11	B
ATOM	409	OE2	DLU	D	4	13.367	-3.264	25.323	1.00	37.45	B
ATOM	410	C	DLU	D	4	14.875	-6.180	30.276	1.00	31.86	B
ATOM	411	O	DLU	D	4	14.832	-7.381	30.553	1.00	32.10	B
ATOM	412	N	DLA	D	5	15.022	-5.237	31.196	1.00	30.98	B
ATOM	413	CA	DLA	D	5	15.098	-5.566	32.611	1.00	30.61	B
ATOM	414	CB	DLA	D	5	14.984	-4.296	33.406	1.00	30.83	B
ATOM	415	C	DLA	D	5	16.362	-6.340	33.008	1.00	30.19	B
ATOM	416	O	DLA	D	5	16.387	-7.044	34.027	1.00	30.60	B
ATOM	417	N	DRG	D	6	17.418	-6.202	32.216	1.00	29.09	B
ATOM	418	CA	DRG	D	6	18.673	-6.893	32.489	1.00	28.71	B
ATOM	419	CB	DRG	D	6	18.480	-8.408	32.369	1.00	31.46	B
ATOM	420	CG	DRG	D	6	18.169	-8.847	30.969	1.00	34.88	B
ATOM	421	CD	DRG	D	6	19.397	-8.762	30.070	1.00	37.42	B
ATOM	422	NE	DRG	D	6	19.715	-7.408	29.607	1.00	40.28	B
ATOM	423	CZ	DRG	D	6	20.121	-7.134	28.370	1.00	40.89	B
ATOM	424	NH1	DRG	D	6	20.248	-8.118	27.481	1.00	42.76	B
ATOM	425	NH2	DRG	D	6	20.409	-5.891	28.015	1.00	42.55	B
ATOM	426	C	DRG	D	6	19.313	-6.582	33.833	1.00	27.29	B
ATOM	427	O	DRG	D	6	19.994	-7.423	34.421	1.00	27.43	B
ATOM	428	N	DIS	D	7	19.100	-5.379	34.342	1.00	24.49	B
ATOM	429	CA	DIS	D	7	19.731	-5.018	35.624	1.00	22.04	B
ATOM	430	CB	DIS	D	7	18.970	-3.888	36.284	1.00	22.68	B
ATOM	431	CG	DIS	D	7	17.655	-4.321	36.854	1.00	22.88	B
ATOM	432	CD2	DIS	D	7	17.178	-5.567	37.104	1.00	24.08	B
ATOM	433	ND1	DIS	D	7	16.650	-3.445	37.187	1.00	25.78	B
ATOM	434	CE1	DIS	D	7	15.595	-4.134	37.608	1.00	26.45	B
ATOM	435	NE2	DIS	D	7	15.894	-5.419	37.562	1.00	25.11	B
ATOM	436	C	DIS	D	7	21.156	-4.636	35.329	1.00	21.84	B
ATOM	437	O	DIS	D	7	21.412	-3.743	34.536	1.00	20.32	B
ATOM	438	N	DRG	D	8	22.091	-5.298	36.003	1.00	20.33	B
ATOM	439	CA	DRG	D	8	23.494	-5.122	35.778	1.00	19.80	B
ATOM	440	CB	DRG	D	8	24.284	-5.994	36.755	1.00	20.87	B
ATOM	441	CG	DRG	D	8	24.175	-7.428	36.459	1.00	26.97	B
ATOM	442	CD	DRG	D	8	24.743	-8.207	37.631	1.00	29.07	B
ATOM	443	NE	DRG	D	8	24.581	-9.603	37.325	1.00	31.54	B
ATOM	444	CZ	DRG	D	8	25.258	-10.189	36.352	1.00	31.94	B
ATOM	445	NH1	DRG	D	8	26.139	-9.485	35.658	1.00	33.88	B
ATOM	446	NH2	DRG	D	8	24.987	-11.432	36.027	1.00	33.88	B
ATOM	447	C	DRG	D	8	23.985	-3.711	35.873	1.00	17.95	B
ATOM	448	O	DRG	D	8	24.856	-3.361	35.124	1.00	17.42	B
ATOM	449	N	DLU	D	9	23.407	-2.934	36.783	1.00	16.93	B
ATOM	450	CA	DLU	D	9	23.900	-1.578	36.951	1.00	15.49	B
ATOM	451	CB	DLU	D	9	23.358	-0.954	38.261	1.00	16.03	B
ATOM	452	CG	DLU	D	9	21.876	-0.652	38.323	1.00	16.75	B
ATOM	453	CD	DLU	D	9	20.996	-1.816	38.786	1.00	16.82	B
ATOM	454	OE1	DLU	D	9	21.407	-2.982	38.584	1.00	19.63	B
ATOM	455	OE2	DLU	D	9	19.933	-1.498	39.310	1.00	20.12	B
ATOM	456	C	DLU	D	9	23.601	-0.717	35.747	1.00	15.97	B
ATOM	457	O	DLU	D	9	24.142	0.383	35.655	1.00	15.24	B
ATOM	458	N	DRP	D	10	22.747	-1.186	34.844	1.00	15.66	B
ATOM	459	CA	DRP	D	10	22.462	-0.435	33.611	1.00	15.31	B

Figure 7J

ATOM	460	CB	DRP	D	10	20.960	-0.187	33.420	1.00	16.05	B
ATOM	461	CG	DRP	D	10	20.354	0.791	34.410	1.00	15.28	B
ATOM	462	CD2	DRP	D	10	20.504	2.200	34.384	1.00	15.28	B
ATOM	463	CE2	DRP	D	10	19.734	2.730	35.424	1.00	15.74	B
ATOM	464	CE3	DRP	D	10	21.237	3.075	33.563	1.00	15.47	B
ATOM	465	CD1	DRP	D	10	19.504	0.512	35.449	1.00	16.40	B
ATOM	466	NE1	DRP	D	10	19.122	1.676	36.073	1.00	17.22	B
ATOM	467	CZ2	DRP	D	10	19.650	4.107	35.666	1.00	15.81	B
ATOM	468	CZ3	DRP	D	10	21.174	4.444	33.805	1.00	14.93	B
ATOM	469	CH2	DRP	D	10	20.382	4.935	34.850	1.00	15.26	B
ATOM	470	C	DRP	D	10	23.000	-1.140	32.376	1.00	17.32	B
ATOM	471	O	DRP	D	10	22.790	-0.682	31.244	1.00	16.59	B
ATOM	472	N	DLA	D	11	23.744	-2.227	32.572	1.00	17.72	B
ATOM	473	CA	DLA	D	11	24.253	-2.940	31.407	1.00	18.88	B
ATOM	474	CB	DLA	D	11	25.034	-4.168	31.867	1.00	20.11	B
ATOM	475	C	DLA	D	11	25.126	-2.074	30.501	1.00	18.95	B
ATOM	476	O	DLA	D	11	25.078	-2.221	29.267	1.00	21.13	B
ATOM	477	N	DRP	D	12	25.884	-1.142	31.084	1.00	17.86	B
ATOM	478	CA	DRP	D	12	26.759	-0.275	30.317	1.00	17.72	B
ATOM	479	CB	DRP	D	12	27.586	0.645	31.239	1.00	18.43	B
ATOM	480	CG	DRP	D	12	26.725	1.588	32.059	1.00	16.68	B
ATOM	481	CD2	DRP	D	12	26.285	2.900	31.676	1.00	16.49	B
ATOM	482	CE2	DRP	D	12	25.459	3.371	32.706	1.00	15.68	B
ATOM	483	CE3	DRP	D	12	26.519	3.714	30.561	1.00	17.14	B
ATOM	484	CD1	DRP	D	12	26.177	1.335	33.256	1.00	15.60	B
ATOM	485	NE1	DRP	D	12	25.402	2.400	33.668	1.00	15.74	B
ATOM	486	CZ2	DRP	D	12	24.842	4.628	32.664	1.00	15.78	B
ATOM	487	CZ3	DRP	D	12	25.904	4.977	30.525	1.00	17.42	B
ATOM	488	CH2	DRP	D	12	25.090	5.406	31.550	1.00	16.81	B
ATOM	489	C	DRP	D	12	25.913	0.577	29.346	1.00	18.81	B
ATOM	490	O	DRP	D	12	26.347	0.870	28.231	1.00	20.05	B
ATOM	491	N	DEU	D	13	24.740	1.020	29.790	1.00	17.43	B
ATOM	492	CA	DEU	D	13	23.915	1.866	28.926	1.00	17.59	B
ATOM	493	CB	DEU	D	13	22.883	2.647	29.756	1.00	15.97	B
ATOM	494	CG	DEU	D	13	21.857	3.489	28.971	1.00	15.31	B
ATOM	495	CD1	DEU	D	13	22.559	4.585	28.204	1.00	16.99	B
ATOM	496	CD2	DEU	D	13	20.886	4.105	29.938	1.00	16.07	B
ATOM	497	C	DEU	D	13	23.265	1.011	27.847	1.00	19.32	B
ATOM	498	O	DEU	D	13	23.224	1.429	26.702	1.00	20.12	B
ATOM	499	N	DCS	D	14	22.775	-0.180	28.199	1.00	20.93	B
ATOM	500	CA	DCS	D	14	22.190	-1.046	27.196	1.00	22.79	B
ATOM	501	C	DCS	D	14	23.272	-1.329	26.124	1.00	22.54	B
ATOM	502	O	DCS	D	14	22.963	-1.318	24.916	1.00	23.67	B
ATOM	503	CB	DCS	D	14	21.675	-2.319	27.874	1.00	23.47	B
ATOM	504	SG	DCS	D	14	21.216	-3.669	26.732	1.00	27.91	B
ATOM	505	N	DLA	D	15	24.514	-1.568	26.533	1.00	22.47	B
ATOM	506	CA	DLA	D	15	25.627	-1.857	25.614	1.00	23.31	B
ATOM	507	CB	DLA	D	15	26.868	-2.302	26.401	1.00	24.09	B
ATOM	508	C	DLA	D	15	25.987	-0.672	24.717	1.00	24.16	B
ATOM	509	O	DLA	D	15	26.511	-0.844	23.614	1.00	25.93	B
ATOM	510	N	DLA	D	16	25.723	0.544	25.192	1.00	22.60	B
ATOM	511	CA	DLA	D	16	26.017	1.743	24.400	1.00	22.10	B
ATOM	512	CB	DLA	D	16	26.006	2.985	25.314	1.00	22.02	B
ATOM	513	C	DLA	D	16	24.995	1.932	23.278	1.00	21.95	B
ATOM	514	O	DLA	D	16	25.355	2.570	22.256	1.00	22.36	B
ATOM	515	NT	DLA	D	16	23.843	1.460	23.410	1.00	23.47	B
ATOM	516	CL-1	CL	I	1	20.914	12.075	1.999	1.00	45.04	I
ATOM	517	OH2	WAT	W	1	23.912	6.454	-21.684	1.00	53.50	W

Figure 7K

not a sheet

ATOM	518	OH2	WAT	W	2	30.822	2.444	-19.357	1.00	52.17	W
ATOM	519	OH2	WAT	W	3	30.369	13.971	-17.693	1.00	37.23	W
ATOM	520	OH2	WAT	W	4	27.699	12.875	-16.588	1.00	46.63	W
ATOM	521	OH2	WAT	W	5	23.417	1.727	-13.168	1.00	48.41	W
ATOM	522	OH2	WAT	W	6	24.012	1.401	-16.007	1.00	58.65	W
ATOM	523	OH2	WAT	W	7	16.572	3.069	-7.418	1.00	36.12	W
ATOM	524	OH2	WAT	W	8	32.381	11.028	-8.334	1.00	55.01	W
ATOM	525	OH2	WAT	W	9	33.753	7.275	-10.261	1.00	53.14	W
ATOM	526	OH2	WAT	W	10	20.318	-0.862	-12.067	1.00	28.89	W
ATOM	527	OH2	WAT	W	11	26.434	1.459	-10.129	1.00	43.04	W
ATOM	528	OH2	WAT	W	12	27.878	0.323	-12.146	1.00	55.95	W
ATOM	529	OH2	WAT	W	13	31.427	0.259	-10.741	1.00	52.47	W
ATOM	530	OH2	WAT	W	14	29.889	8.411	-6.889	1.00	56.49	W
ATOM	531	OH2	WAT	W	15	22.532	1.843	-4.021	1.00	32.19	W
ATOM	532	OH2	WAT	W	16	23.814	-0.534	-4.336	1.00	39.56	W
ATOM	533	OH2	WAT	W	17	19.996	1.598	-5.292	1.00	33.28	W
ATOM	534	OH2	WAT	W	18	25.262	-3.040	-8.386	1.00	28.37	W
ATOM	535	OH2	WAT	W	19	22.556	0.000	0.001	1.00	30.95	W
ATOM	536	OH2	WAT	W	20	24.369	-1.421	-1.823	1.00	29.32	W
ATOM	537	OH2	WAT	W	21	29.134	-0.583	-6.291	1.00	46.18	W
ATOM	538	OH2	WAT	W	22	27.394	2.286	-5.533	1.00	43.67	W
ATOM	539	OH2	WAT	W	23	26.774	0.049	-4.387	1.00	45.47	W
ATOM	540	OH2	WAT	W	24	30.008	5.236	1.507	1.00	52.80	W
ATOM	541	OH2	WAT	W	25	27.776	4.560	0.356	1.00	42.94	W
ATOM	542	OH2	WAT	W	26	32.018	6.237	0.261	1.00	53.15	W
ATOM	543	OH2	WAT	W	28	18.650	4.426	-0.423	1.00	34.71	W
ATOM	544	OH2	WAT	W	29	18.919	1.842	-1.284	1.00	42.23	W
ATOM	545	OH2	WAT	W	30	11.826	6.239	7.700	1.00	59.49	W
ATOM	546	OH2	WAT	W	31	13.683	5.469	2.919	1.00	52.76	W
ATOM	547	OH2	WAT	W	32	16.956	4.594	1.380	1.00	47.84	W
ATOM	548	OH2	WAT	W	33	17.260	2.099	7.679	1.00	46.32	W
ATOM	549	OH2	WAT	W	34	17.636	1.737	-4.073	1.00	51.94	W
ATOM	550	OH2	WAT	W	35	16.221	5.835	9.764	1.00	30.19	W
ATOM	551	OH2	WAT	W	36	26.030	8.926	8.979	1.00	51.32	W
ATOM	552	OH2	WAT	W	37	13.758	2.898	9.624	1.00	52.05	W
ATOM	553	OH2	WAT	W	38	14.899	5.914	11.925	1.00	35.86	W
ATOM	554	OH2	WAT	W	39	19.841	0.030	14.724	1.00	45.90	W
ATOM	555	OH2	WAT	W	40	13.772	2.335	12.179	1.00	50.60	W
ATOM	556	OH2	WAT	W	41	13.367	0.805	6.229	1.00	51.80	W
ATOM	557	OH2	WAT	W	42	15.587	3.501	15.845	1.00	30.05	W
ATOM	558	OH2	WAT	W	43	14.280	4.098	13.819	1.00	48.74	W
ATOM	559	OH2	WAT	W	44	14.273	3.983	18.042	1.00	32.62	W
ATOM	560	OH2	WAT	W	45	14.275	2.720	20.720	1.00	40.19	W
ATOM	561	OH2	WAT	W	46	21.969	2.228	18.885	1.00	22.32	W
ATOM	562	OH2	WAT	W	47	21.588	1.778	21.594	1.00	28.43	W
ATOM	563	OH2	WAT	W	48	11.908	3.300	22.023	1.00	50.50	W
ATOM	564	OH2	WAT	W	49	13.679	0.626	18.643	1.00	46.64	W
ATOM	565	OH2	WAT	W	50	16.369	2.196	22.597	1.00	30.08	W
ATOM	566	OH2	WAT	W	51	12.828	6.527	18.634	1.00	37.29	W
ATOM	567	OH2	WAT	W	52	24.603	2.631	19.581	1.00	25.55	W
ATOM	568	OH2	WAT	W	53	11.867	0.791	23.131	1.00	58.27	W
ATOM	569	OH2	WAT	W	54	24.646	5.366	17.812	1.00	50.24	W
ATOM	570	OH2	WAT	W	55	20.954	0.091	17.131	1.00	49.14	W
ATOM	571	OH2	WAT	W	56	19.747	-0.562	21.394	1.00	36.92	W
ATOM	572	OH2	WAT	W	57	14.819	8.442	19.922	1.00	33.61	W
ATOM	573	OH2	WAT	W	58	10.854	5.349	19.724	1.00	45.89	W
ATOM	574	OH2	WAT	W	59	10.710	9.378	19.376	1.00	37.52	W
ATOM	575	OH2	WAT	W	60	10.497	10.303	21.845	1.00	34.96	W

Figure 7L

ATOM	576	OH2	WAT	W	61	12.866	5.691	26.354	1.00	28.86	W
ATOM	577	OH2	WAT	W	62	10.758	7.878	25.495	1.00	42.32	W
ATOM	578	OH2	WAT	W	63	11.782	6.555	28.773	1.00	29.65	W
ATOM	579	OH2	WAT	W	64	10.296	8.472	27.988	1.00	37.31	W
ATOM	580	OH2	WAT	W	65	13.316	2.342	26.849	1.00	43.22	W
ATOM	581	OH2	WAT	W	66	29.863	-1.693	28.654	1.00	38.41	W
ATOM	582	OH2	WAT	W	67	16.468	-1.186	26.444	1.00	32.71	W
ATOM	583	OH2	WAT	W	68	20.934	12.065	25.212	1.00	18.68	W
ATOM	584	OH2	WAT	W	69	7.101	5.989	26.485	1.00	48.02	W
ATOM	585	OH2	WAT	W	70	7.226	10.744	27.574	1.00	33.30	W
ATOM	586	OH2	WAT	W	71	16.382	-1.374	34.997	1.00	34.36	W
ATOM	587	OH2	WAT	W	72	17.474	-0.717	38.167	1.00	28.82	W
ATOM	588	OH2	WAT	W	73	17.984	-2.951	33.186	1.00	27.39	W
ATOM	589	OH2	WAT	W	74	16.999	1.929	37.830	1.00	37.09	W
ATOM	590	OH2	WAT	W	75	20.595	3.071	39.121	1.00	19.51	W
ATOM	591	OH2	WAT	W	76	14.326	5.004	39.584	1.00	20.31	W
ATOM	592	OH2	WAT	W	77	11.973	4.544	38.034	1.00	32.93	W
ATOM	593	OH2	WAT	W	78	18.317	4.417	39.397	1.00	44.00	W
ATOM	594	OH2	WAT	W	79	10.983	-2.804	30.948	1.00	52.39	W
ATOM	595	OH2	WAT	W	80	11.064	0.945	32.640	1.00	30.78	W
ATOM	596	OH2	WAT	W	81	12.861	0.902	39.566	1.00	51.74	W
ATOM	597	OH2	WAT	W	82	14.353	-1.379	39.210	1.00	48.06	W
ATOM	598	OH2	WAT	W	83	13.014	-3.417	36.263	1.00	46.54	W
ATOM	599	OH2	WAT	W	84	11.101	-2.319	39.669	1.00	61.24	W
ATOM	600	OH2	WAT	W	85	20.879	-3.825	31.838	1.00	26.25	W
ATOM	601	OH2	WAT	W	86	24.470	-4.753	28.192	1.00	36.86	W
ATOM	602	OH2	WAT	W	87	22.117	-5.700	29.831	1.00	38.03	W
ATOM	603	OH2	WAT	W	88	19.685	0.721	41.041	1.00	28.21	W
ATOM	604	OH2	WAT	W	89	20.274	5.127	40.337	1.00	32.29	W
ATOM	605	OH2	WAT	W	90	10.072	4.538	29.943	1.00	33.10	W
ATOM	606	OH2	WAT	W	91	10.573	4.216	33.496	1.00	33.22	W
ATOM	607	OH2	WAT	W	92	10.336	5.922	36.364	1.00	48.48	W
ATOM	608	OH2	WAT	W	93	9.113	5.209	40.332	1.00	51.71	W
ATOM	609	OH2	WAT	W	94	9.980	8.713	42.573	1.00	24.98	W
ATOM	610	OH2	WAT	W	95	17.708	6.542	-1.798	1.00	36.93	W
ATOM	611	OH2	WAT	W	96	10.278	11.397	38.730	1.00	17.13	W
ATOM	612	OH2	WAT	W	97	11.290	10.478	36.184	1.00	15.62	W
ATOM	613	OH2	WAT	W	98	8.444	12.988	37.395	1.00	17.25	W
ATOM	614	OH2	WAT	W	99	8.735	9.911	40.361	1.00	25.18	W
ATOM	615	OH2	WAT	W	100	6.665	11.917	35.86			

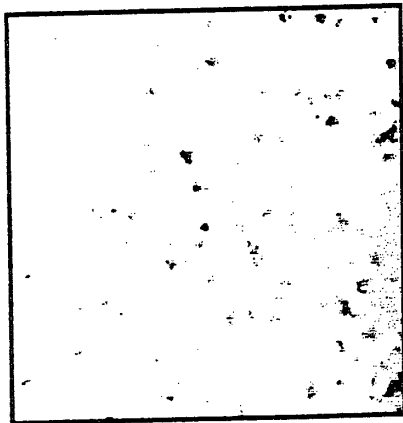
Figure 7M

ATOM 634 OH2 WAT W 119 33.766 4.315 -14.106 1.00 57.44 W
 ATOM 635 OH2 WAT W 120 26.831 7.497 7.075 1.00 40.38 W
 ATOM 636 OH2 WAT W 121 26.562 8.206 4.240 1.00 32.00 W
 ATOM 637 OH2 WAT W 122 29.081 7.039 3.251 1.00 46.30 W
 ATOM 638 OH2 WAT W 123 22.080 -0.975 10.516 1.00 39.31 W
 ATOM 639 OH2 WAT W 124 28.185 3.991 13.044 1.00 45.28 W
 ATOM 640 OH2 WAT W 125 29.400 7.324 10.996 1.00 52.21 W
 ATOM 641 OH2 WAT W 126 12.966 3.595 24.673 1.00 59.42 W
 ATOM 642 OH2 WAT W 127 8.932 7.961 36.476 1.00 45.85 W
 ATOM 643 OH2 WAT W 128 12.712 5.206 41.719 1.00 38.55 W
 ATOM 644 OH2 WAT W 129 9.431 10.564 47.230 1.00 35.27 W
 ATOM 645 OH2 WAT W 130 6.643 9.576 45.596 1.00 44.00 W
 ATOM 646 OH2 WAT W 131 21.501 13.657 45.856 1.00 43.49 W
 ATOM 647 OH2 WAT W 132 19.368 14.112 46.567 1.00 41.15 W
 ATOM 648 OH2 WAT W 133 20.913 12.058 48.230 1.00 36.86 W
 ATOM 649 OH2 WAT W 134 13.556 4.967 44.137 1.00 49.55 W
 ATOM 650 OH2 WAT W 135 17.568 0.000 0.010 1.00 54.94 W
 ATOM 651 OH2 WAT W 136 17.847 -0.139 11.093 1.00 42.03 W
 ATOM 652 OH2 WAT W 137 25.734 4.074 15.641 1.00 35.36 W
 ATOM 653 OH2 WAT W 138 8.107 7.930 38.831 1.00 37.47 W
 ATOM 654 OH2 WAT W 139 10.614 4.603 44.378 1.00 61.10 W
 ATOM 655 OH2 WAT W 140 14.180 -9.552 32.610 1.00 37.66 W
 ATOM 656 OH2 WAT W 141 26.549 -4.072 22.858 1.00 48.05 W
 ATOM 657 OH2 WAT W 142 21.688 -2.141 22.847 1.00 36.75 W
 ATOM 658 OH2 WAT W 143 15.457 1.462 27.799 1.00 38.11 W
 ATOM 659 OH2 WAT W 144 18.956 16.356 45.521 1.00 36.93 W
 ATOM 660 OH2 WAT W 145 15.655 2.938 40.183 1.00 40.77 W
 ATOM 661 OH2 WAT W 146 15.688 -1.613 19.777 1.00 47.04 W
 ATOM 662 OH2 WAT W 147 26.880 -5.627 28.327 1.00 44.89 W
 ATOM 663 OH2 WAT W 148 28.682 -5.605 33.707 1.00 43.34 W
 ATOM 664 OH2 WAT W 149 28.220 11.179 -23.836 1.00 53.67 W
 ATOM 665 OH2 WAT W 150 27.905 3.222 -7.774 1.00 44.54 W
 ATOM 666 OH2 WAT W 151 15.403 -11.541 32.995 1.00 47.59 W
 TER
 END

Figure 7N

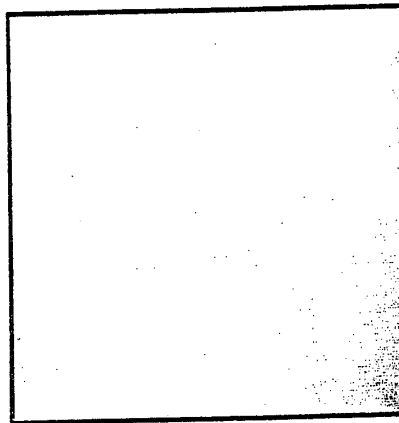
Inhibition of HIV-1 Membrane Fusion by a D-Peptide

Figure 8A



Syncytia Assay with no D-peptide

Figure 8B



Syncytia Assay with [100 μ M] peptide

007221 21251200

Figure 9A

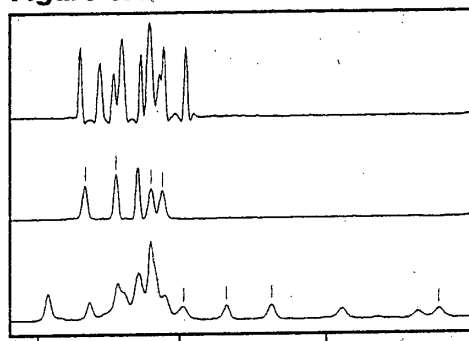


Figure 9C

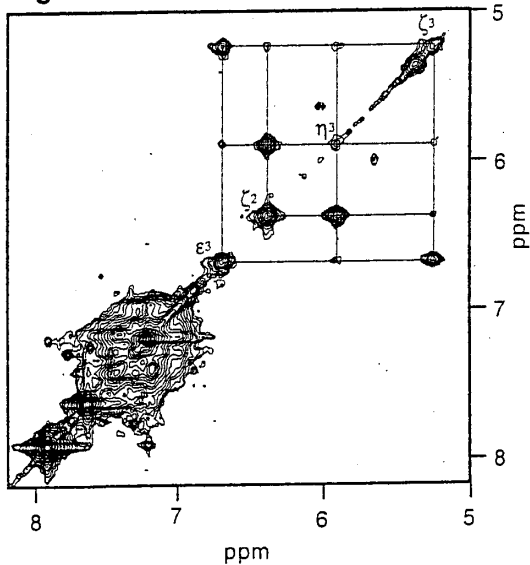


Figure 9B

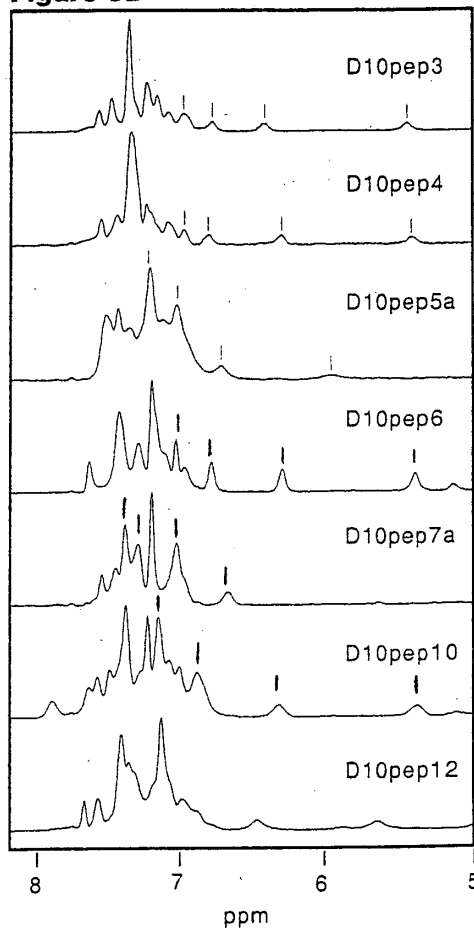
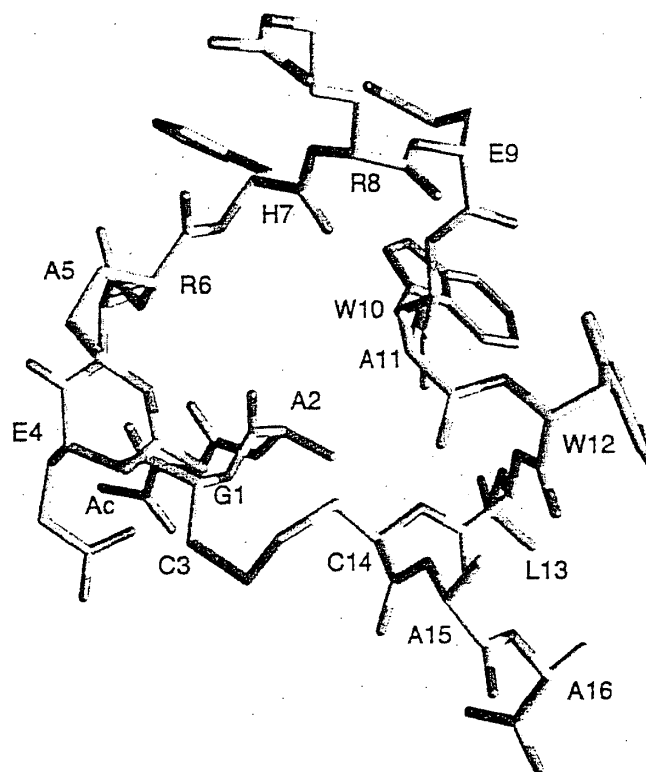


Figure 10: Conformation of D10pep1 in complex with IQN17



001227 24254200

OUTLINE CH251600

CRYST1	57.935	121.959	73.669	90.00	90.00	90.00	C2221	1
ORIGX1	1.000000	0.000000	0.000000			0.000000		
ORIGX2	0.000000	1.000000	0.000000			0.000000		
ORIGX3	0.000000	0.000000	1.000000			0.000000		
SCALE1	0.017261	0.000000	0.000000			0.000000		
SCALE2	0.000000	0.008199	0.000000			0.000000		
SCALE3	0.000000	0.000000	0.013574			0.000000		
ATOM	1	CA	ACE	A	0	25.795	17.140	37.286 1.00 61.88 A
ATOM	2	C	ACE	A	0	25.799	18.376	36.435 1.00 62.00 A
ATOM	3	O	ACE	A	0	25.500	19.475	36.921 1.00 62.10 A
ATOM	4	N	ARG	A	1	26.134	18.217	35.157 1.00 60.34 A
ATOM	5	CA	ARG	A	1	26.203	19.328	34.217 1.00 60.56 A
ATOM	6	CB	ARG	A	1	27.212	18.993	33.110 1.00 61.87 A
ATOM	7	CG	ARG	A	1	27.630	20.135	32.212 1.00 60.78 A
ATOM	8	CD	ARG	A	1	28.500	19.587	31.097 1.00 64.25 A
ATOM	9	NE	ARG	A	1	29.018	20.628	30.217 1.00 65.07 A
ATOM	10	CZ	ARG	A	1	29.706	20.377	29.109 1.00 63.90 A
ATOM	11	NH1	ARG	A	1	29.951	19.124	28.766 1.00 64.20 A
ATOM	12	NH2	ARG	A	1	30.157	21.367	28.351 1.00 63.51 A
ATOM	13	C	ARG	A	1	24.823	19.573	33.595 1.00 59.45 A
ATOM	14	O	ARG	A	1	24.453	20.714	33.294 1.00 57.69 A
ATOM	15	N	MET	A	2	24.065	18.494	33.425 1.00 57.60 A
ATOM	16	CA	MET	A	2	22.736	18.573	32.836 1.00 59.95 A
ATOM	17	CB	MET	A	2	22.273	17.198	32.397 1.00 59.85 A
ATOM	18	CG	MET	A	2	21.204	17.251	31.342 1.00 63.56 A
ATOM	19	SD	MET	A	2	20.044	15.905	31.454 1.00 67.77 A
ATOM	20	CE	MET	A	2	19.089	16.438	32.857 1.00 66.61 A
ATOM	21	C	MET	A	2	21.723	19.130	33.834 1.00 61.33 A
ATOM	22	O	MET	A	2	20.543	19.276	33.521 1.00 59.97 A
ATOM	23	N	LYS	A	3	22.200	19.417	35.041 1.00 62.71 A
ATOM	24	CA	LYS	A	3	21.373	19.961	36.107 1.00 63.07 A
ATOM	25	CB	LYS	A	3	21.817	19.361	37.449 1.00 64.25 A
ATOM	26	CG	LYS	A	3	20.982	19.721	38.687 1.00 64.89 A
ATOM	27	CD	LYS	A	3	21.195	21.159	39.160 1.00 64.67 A
ATOM	28	CE	LYS	A	3	20.543	21.405	40.525 1.00 64.66 A
ATOM	29	NZ	LYS	A	3	19.077	21.123	40.548 1.00 63.04 A
ATOM	30	C	LYS	A	3	21.599	21.467	36.062 1.00 64.55 A
ATOM	31	O	LYS	A	3	20.639	22.245	36.032 1.00 64.65 A
ATOM	32	N	GLN	A	4	22.869	21.873	36.036 1.00 64.34 A
ATOM	33	CA	GLN	A	4	23.232	23.289	35.952 1.00 65.46 A
ATOM	34	CB	GLN	A	4	24.746	23.447	35.780 1.00 67.71 A
ATOM	35	CG	GLN	A	4	25.552	22.954	36.963 1.00 71.16 A
ATOM	36	CD	GLN	A	4	25.297	23.771	38.212 1.00 75.18 A
ATOM	37	OE1	GLN	A	4	25.618	24.962	38.269 1.00 77.70 A
ATOM	38	NE2	GLN	A	4	24.706	23.135	39.225 1.00 76.77 A
ATOM	39	C	GLN	A	4	22.508	23.928	34.758 1.00 64.11 A
ATOM	40	O	GLN	A	4	22.191	25.128	34.776 1.00 62.08 A
ATOM	41	N	ILE	A	5	22.260	23.120	33.726 1.00 59.80 A
ATOM	42	CA	ILE	A	5	21.540	23.587	32.552 1.00 58.22 A
ATOM	43	CB	ILE	A	5	21.567	22.558	31.398 1.00 56.85 A
ATOM	44	CG2	ILE	A	5	20.438	22.851	30.416 1.00 53.92 A
ATOM	45	CG1	ILE	A	5	22.942	22.562	30.719 1.00 56.47 A
ATOM	46	CD1	ILE	A	5	23.079	21.524	29.514 1.00 59.50 A
ATOM	47	C	ILE	A	5	20.083	23.828	32.929 1.00 58.98 A
ATOM	48	O	ILE	A	5	19.575	24.928	32.729 1.00 58.48 A
ATOM	49	N	GLU	A	6	19.424	22.796	33.472 1.00 59.29 A
ATOM	50	CA	GLU	A	6	18.013	22.983	33.377 1.00 56.51 A
ATOM	51	CB	GLU	A	6	17.528	21.537	34.448 1.00 55.59 A

Figure 11A

Figure 11B

ATOM	112	CG	GLU	A	13	11.673	28.794	31.895	1.00	46.65	A
ATOM	113	CD	GLU	A	13	11.419	27.372	32.358	1.00	49.90	A
ATOM	114	OE1	GLU	A	13	12.051	26.968	33.366	1.00	49.96	A
ATOM	115	OE2	GLU	A	13	10.599	26.665	31.720	1.00	50.18	A
ATOM	116	C	GLU	A	13	11.357	32.163	33.749	1.00	47.83	A
ATOM	117	O	GLU	A	13	10.279	32.731	33.638	1.00	48.72	A
ATOM	118	N	SER	A	14	12.168	32.313	34.786	1.00	48.67	A
ATOM	119	CA	SER	A	14	11.862	33.187	35.907	1.00	49.89	A
ATOM	120	CB	SER	A	14	12.906	32.985	37.014	1.00	49.05	A
ATOM	121	OG	SER	A	14	12.634	33.773	38.160	1.00	49.35	A
ATOM	122	C	SER	A	14	11.885	34.627	35.415	1.00	50.52	A
ATOM	123	O	SER	A	14	10.869	35.313	35.431	1.00	54.15	A
ATOM	124	N	LYS	A	15	13.056	35.067	34.971	1.00	49.27	A
ATOM	125	CA	LYS	A	15	13.248	36.416	34.474	1.00	51.02	A
ATOM	126	CB	LYS	A	15	14.707	36.589	34.042	1.00	54.30	A
ATOM	127	CG	LYS	A	15	15.018	37.931	33.417	1.00	58.79	A
ATOM	128	CD	LYS	A	15	14.843	39.039	34.437	1.00	63.42	A
ATOM	129	CE	LYS	A	15	15.841	38.880	35.576	1.00	65.66	A
ATOM	130	NZ	LYS	A	15	15.722	39.983	36.569	1.00	68.14	A
ATOM	131	C	LYS	A	15	12.313	36.758	33.305	1.00	50.99	A
ATOM	132	O	LYS	A	15	12.022	37.926	33.061	1.00	49.62	A
ATOM	133	N	GLN	A	16	11.848	35.740	32.587	1.00	50.06	A
ATOM	134	CA	GLN	A	16	10.965	35.937	31.444	1.00	49.96	A
ATOM	135	CB	GLN	A	16	10.950	34.684	30.570	1.00	49.89	A
ATOM	136	CG	GLN	A	16	10.133	34.810	29.286	1.00	50.59	A
ATOM	137	CD	GLN	A	16	10.287	33.603	28.369	1.00	54.27	A
ATOM	138	OE1	GLN	A	16	9.799	32.511	28.667	1.00	56.28	A
ATOM	139	NE2	GLN	A	16	10.985	33.796	27.250	1.00	54.69	A
ATOM	140	C	GLN	A	16	9.551	36.256	31.899	1.00	50.61	A
ATOM	141	O	GLN	A	16	8.788	36.931	31.195	1.00	48.56	A
ATOM	142	N	LYS	A	17	9.198	35.736	33.067	1.00	49.38	A
ATOM	143	CA	LYS	A	17	7.883	35.973	33.623	1.00	49.73	A
ATOM	144	CB	LYS	A	17	7.582	34.982	34.750	1.00	52.97	A
ATOM	145	CG	LYS	A	17	6.250	35.226	35.448	1.00	56.86	A
ATOM	146	CD	LYS	A	17	6.066	34.276	36.618	1.00	59.31	A
ATOM	147	CE	LYS	A	17	4.763	34.552	37.354	1.00	59.95	A
ATOM	148	NZ	LYS	A	17	4.592	33.621	38.506	1.00	62.05	A
ATOM	149	C	LYS	A	17	7.927	37.290	34.163	1.00	48.25	A
ATOM	150	O	LYS	A	17	6.977	38.144	34.008	1.00	47.73	A
ATOM	151	N	LYS	A	18	9.043	37.750	34.791	1.00	45.58	A
ATOM	152	CA	LYS	A	18	9.190	39.101	35.309	1.		

Figure 11C

DEPT. OF HEALTH

ATOM	172	CD	GLU	A	20	5.446	36.019	29.659	1.00	50.57	A
ATOM	173	OE1	GLU	A	20	5.832	35.316	30.617	1.00	52.42	A
ATOM	174	OE2	GLU	A	20	4.708	35.575	28.752	1.00	52.16	A
ATOM	175	C	GLU	A	20	5.195	40.546	31.873	1.00	40.09	A
ATOM	176	O	GLU	A	20	4.148	41.056	31.480	1.00	40.96	A
ATOM	177	N	ASN	A	21	5.637	40.694	33.119	1.00	38.83	A
ATOM	178	CA	ASN	A	21	4.880	41.498	34.071	1.00	40.69	A
ATOM	179	CB	ASN	A	21	5.216	41.107	35.507	1.00	39.42	A
ATOM	180	CG	ASN	A	21	4.618	39.768	35.892	1.00	41.35	A
ATOM	181	OD1	ASN	A	21	3.905	39.151	35.102	1.00	38.98	A
ATOM	182	ND2	ASN	A	21	4.902	39.312	37.107	1.00	40.82	A
ATOM	183	C	ASN	A	21	5.163	42.958	33.846	1.00	42.25	A
ATOM	184	O	ASN	A	21	4.261	43.801	33.872	1.00	42.61	A
ATOM	185	N	GLU	A	22	6.432	43.244	33.602	1.00	41.94	A
ATOM	186	CA	GLU	A	22	6.893	44.589	33.343	1.00	41.44	A
ATOM	187	CB	GLU	A	22	8.403	44.563	33.127	1.00	43.01	A
ATOM	188	CG	GLU	A	22	9.126	45.861	33.421	1.00	49.75	A
ATOM	189	CD	GLU	A	22	9.769	45.872	34.802	1.00	52.80	A
ATOM	190	OE1	GLU	A	22	10.611	44.988	35.077	1.00	53.66	A
ATOM	191	OE2	GLU	A	22	9.447	46.764	35.608	1.00	57.41	A
ATOM	192	C	GLU	A	22	6.188	45.082	32.068	1.00	41.34	A
ATOM	193	O	GLU	A	22	5.851	46.263	31.954	1.00	43.52	A
ATOM	194	N	ILE	A	23	5.964	44.175	31.116	1.00	37.55	A
ATOM	195	CA	ILE	A	23	5.295	44.530	29.863	1.00	35.10	A
ATOM	196	CB	ILE	A	23	5.418	43.408	28.800	1.00	36.19	A
ATOM	197	CG2	ILE	A	23	4.520	43.719	27.592	1.00	35.94	A
ATOM	198	CG1	ILE	A	23	6.876	43.288	28.340	1.00	39.18	A
ATOM	199	CD1	ILE	A	23	7.122	42.193	27.324	1.00	40.80	A
ATOM	200	C	ILE	A	23	3.816	44.827	30.093	1.00	33.36	A
ATOM	201	O	ILE	A	23	3.284	45.796	29.568	1.00	28.55	A
ATOM	202	N	ALA	A	24	3.167	43.981	30.881	1.00	30.41	A
ATOM	203	CA	ALA	A	24	1.760	44.147	31.179	1.00	30.11	A
ATOM	204	CB	ALA	A	24	1.276	42.994	32.043	1.00	27.29	A
ATOM	205	C	ALA	A	24	1.531	45.479	31.893	1.00	31.41	A
ATOM	206	O	ALA	A	24	0.562	46.183	31.608	1.00	31.49	A
ATOM	207	N	ARG	A	25	2.428	45.825	32.816	1.00	30.94	A
ATOM	208	CA	ARG	A	25	2.297	47.070	33.547	1.00	30.44	A
ATOM	209	CB	ARG	A	25	3.197	47.066	34.798	1.00	32.01	A
ATOM	210	CG	ARG	A	25	2.727	46.101	35.894	1.00	34.49	A
ATOM	211	CD	ARG	A	25	3.471	46.326	37.218	1.00	39.65	A
ATOM	212	NE	ARG	A	25	4.873	45.907	37.177	1.00	40.74	A
ATOM	213	CZ	ARG	A	25	5.308	44.687	37.496	1.00	43.06	A
ATOM	214	NH1	ARG	A	25	4.453	43.749	37.885	1.00	39.85	A
ATOM	215	NH2	ARG	A	25	6.606	44.399	37.399	1.00	40.30	A
ATOM	216	C	ARG	A	25	2.590	48.270	32.651	1.00	28.86	A
ATOM	217	O	ARG	A	25	1.907	49.296	32.728	1.00	29.35	A
ATOM	218	N	ILE	A	26	3.587	48.147	31.790	1.00	26.96	A
ATOM	219	CA	ILE	A	26	3.917	49.226	30.875	1.00	29.07	A
ATOM	220	CB	ILE	A	26	5.132	48.832	29.990	1.00	28.43	A
ATOM	221	CG2	ILE	A	26	5.239	49.760	28.799	1.00	25.38	A
ATOM	222	CG1	ILE	A	26	6.414	48.835	30.839	1.00	28.70	A
ATOM	223	CD1	ILE	A	26	7.646	48.257	30.132	1.00	27.77	A
ATOM	224	C	ILE	A	26	2.719	49.571	29.968	1.00	30.92	A
ATOM	225	O	ILE	A	26	2.435	50.746	29.690	1.00	32.33	A
ATOM	226	N	LYS	A	27	2.019	48.540	29.512	1.00	30.36	A
ATOM	227	CA	LYS	A	27	0.887	48.730	28.627	1.00	30.40	A
ATOM	228	CB	LYS	A	27	0.449	47.388	28.045	1.00	33.83	A
ATOM	229	CG	LYS	A	27	1.520	46.729	27.185	1.00	39.64	A
ATOM	230	CD	LYS	A	27	1.167	45.294	26.831	1.00	44.41	A
ATOM	231	CE	LYS	A	27	-0.086	45.204	26.003	1.00	46.84	A

Figure 11D

ATOM	232	NZ	LYS	A	27	-0.384	43.774	25.698	1.00	53.94	A
ATOM	233	C	LYS	A	27	-0.267	49.402	29.344	1.00	28.67	A
ATOM	234	O	LYS	A	27	-0.919	50.252	28.767	1.00	26.05	A
ATOM	235	N	LYS	A	28	-0.511	49.020	30.593	1.00	27.68	A
ATOM	236	CA	LYS	A	28	-1.597	49.609	31.371	1.00	27.30	A
ATOM	237	CB	LYS	A	28	-1.797	48.845	32.691	1.00	24.82	A
ATOM	238	CG	LYS	A	28	-2.961	49.384	33.573	1.00	27.48	A
ATOM	239	CD	LYS	A	28	-4.263	49.506	32.744	1.00	31.59	A
ATOM	240	CE	LYS	A	28	-5.526	49.699	33.606	1.00	30.02	A
ATOM	241	NZ	LYS	A	28	-5.440	50.820	34.586	1.00	31.11	A
ATOM	242	C	LYS	A	28	-1.284	51.076	31.641	1.00	29.57	A
ATOM	243	O	LYS	A	28	-2.164	51.951	31.566	1.00	28.21	A
ATOM	244	N	LEU	A	29	-0.017	51.359	31.923	1.00	29.36	A
ATOM	245	CA	LEU	A	29	0.385	52.723	32.179	1.00	33.70	A
ATOM	246	CB	LEU	A	29	1.822	52.745	32.692	1.00	35.26	A
ATOM	247	CG	LEU	A	29	2.023	53.727	33.847	1.00	38.04	A
ATOM	248	CD1	LEU	A	29	3.363	53.485	34.506	1.00	39.85	A
ATOM	249	CD2	LEU	A	29	1.891	55.149	33.332	1.00	38.01	A
ATOM	250	C	LEU	A	29	0.243	53.561	30.905	1.00	34.59	A
ATOM	251	O	LEU	A	29	-0.281	54.691	30.927	1.00	37.16	A
ATOM	252	N	LEU	A	30	0.721	53.020	29.792	1.00	34.03	A
ATOM	253	CA	LEU	A	30	0.616	53.724	28.528	1.00	35.56	A
ATOM	254	CB	LEU	A	30	1.230	52.874	27.414	1.00	38.09	A
ATOM	255	CG	LEU	A	30	1.470	53.508	26.050	1.00	40.19	A
ATOM	256	CD1	LEU	A	30	2.270	54.805	26.163	1.00	39.79	A
ATOM	257	CD2	LEU	A	30	2.215	52.484	25.198	1.00	45.44	A
ATOM	258	C	LEU	A	30	-0.882	53.980	28.263	1.00	34.76	A
ATOM	259	O	LEU	A	30	-1.269	55.050	27.794	1.00	33.56	A
ATOM	260	N	GLN	A	31	-1.713	52.996	28.572	1.00	30.55	A
ATOM	261	CA	GLN	A	31	-3.152	53.142	28.401	1.00	31.04	A
ATOM	262	CB	GLN	A	31	-3.865	51.839	28.782	1.00	33.01	A
ATOM	263	CG	GLN	A	31	-5.397	51.924	28.839	1.00	37.09	A
ATOM	264	CD	GLN	A	31	-6.045	50.582	29.159	1.00	45.53	A
ATOM	265	OE1	GLN	A	31	-5.715	49.940	30.159	1.00	52.72	A
ATOM	266	NE2	GLN	A	31	-6.973	50.151	28.310	1.00	46.91	A
ATOM	267	C	GLN	A	31	-3.633	54.303	29.273	1.00	31.34	A
ATOM	268	O	GLN	A	31	-4.419	55.125	28.832	1.00	28.45	A
ATOM	269	N	LEU	A	32	-3.141	54.376	30.509	1.00	30.93	A
ATOM	270	CA	LEU	A	32	-3.523	55.459	31.393	1.00	30.83	A
ATOM	271	CB	LEU	A	32	-2.988	55.237	32.811	1.00	29.49	A
ATOM	272	CG	LEU	A	32	-3.572	54.156	33.732	1.00	31.79	A
ATOM	273	CD1	LEU	A	32	-2.810	54.215	35.075	1.00	33.29	A
ATOM	274	CD2	LEU	A	32	-5.058	54.376	33.972	1.00	25.39	A
ATOM	275	C	LEU	A	32	-3.031	56.797	30.860	1.00	32.26	A
ATOM	276	O	LEU	A	32	-3.707	57.810	31.031	1.00	35.77	A
ATOM	277	N	THR	A	33	-1.872	56.798	30.198	1.00	31.70	A
ATOM	278	CA	THR	A	33	-1.298	58.019	29.640	1.00	33.33	A
ATOM	279	CB	THR	A	33	0.158	57.787	29.156	1.00	35.07	A
ATOM	280	OG1	THR	A	33	0.949	57.272	30.238	1.00	39.00	A
ATOM	281	CG2	THR	A	33	0.776	59.087	28.687	1.00	34.58	A
ATOM	282	C	THR	A	33	-2.120	58.560	28.471	1.00	33.63	A
ATOM	283	O	THR	A	33	-2.237	59.767	28.298	1.00	33.87	A
ATOM	284	N	VAL	A	34	-2.682	57.660	27.670	1.00	35.32	A
ATOM	285	CA	VAL	A	34	-3.507	58.046	26.531	1.00	36.90	A
ATOM	286	CB	VAL	A	34	-3.810	56.832	25.622	1.00	36.47	A
ATOM	287	CG1	VAL	A	34	-4.825	57.200	24.550	1.00	34.36	A
ATOM	288	CG2	VAL	A	34	-2.514	56.354	24.966	1.00	38.97	A
ATOM	289	C	VAL	A	34	-4.809	58.655	27.036	1.00	37.01	A
ATOM	290	O	VAL	A	34	-5.250	59.695	26.540	1.00	35.59	A
ATOM	291	N	TRP	A	35	-5.403	57.992	28.022	1.00	36.34	A

Figure 11E

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Figure 11F

ATOM	352	N	ALA	A	42	-9.971	67.722	26.679	1.00	67.16	A
ATOM	353	CA	ALA	A	42	-11.362	68.150	26.693	1.00	70.08	A
ATOM	354	CB	ALA	A	42	-12.352	67.043	27.249	1.00	68.59	A
ATOM	355	C	ALA	A	42	-11.461	69.423	27.556	1.00	72.76	A
ATOM	356	O	ALA	A	42	-12.506	69.748	28.123	1.00	73.45	A
ATOM	357	N	ARG	A	43	-10.338	70.137	27.642	1.00	75.35	A
ATOM	358	CA	ARG	A	43	-10.202	71.377	28.413	1.00	76.97	A
ATOM	359	CB	ARG	A	43	-9.391	71.121	29.705	1.00	77.23	A
ATOM	360	CG	ARG	A	43	-10.130	70.250	30.753	1.00	77.83	A
ATOM	361	CD	ARG	A	43	-9.265	69.690	31.889	1.00	76.18	A
ATOM	362	NE	ARG	A	43	-10.053	68.919	32.864	1.00	76.19	A
ATOM	363	CZ	ARG	A	43	-10.933	67.967	32.551	1.00	76.17	A
ATOM	364	NH1	ARG	A	43	-11.153	67.657	31.284	1.00	76.24	A
ATOM	365	NH2	ARG	A	43	-11.605	67.326	33.507	1.00	77.89	A
ATOM	366	C	ARG	A	43	-9.560	72.481	27.570	1.00	79.19	A
ATOM	367	O	ARG	A	43	-10.131	72.882	26.548	1.00	79.42	A
ATOM	368	N	ILE	A	44	-8.381	72.970	27.993	1.00	81.42	A
ATOM	369	CA	ILE	A	44	-7.646	74.059	27.276	1.00	84.32	A
ATOM	370	CB	ILE	A	44	-6.073	73.998	27.495	1.00	84.97	A
ATOM	371	CG2	ILE	A	44	-5.292	74.824	26.419	1.00	85.80	A
ATOM	372	CG1	ILE	A	44	-5.728	74.612	28.829	1.00	85.52	A
ATOM	373	CD1	ILE	A	44	-6.344	76.011	29.055	1.00	87.04	A
ATOM	374	C	ILE	A	44	-7.908	73.987	25.790	1.00	86.80	A
ATOM	375	O	ILE	A	44	-8.577	74.829	25.234	1.00	87.60	A
ATOM	376	N	LEU	A	45	-7.318	73.007	25.145	1.00	87.99	A
ATOM	377	CA	LEU	A	45	-7.541	72.910	23.737	1.00	88.13	A
ATOM	378	CB	LEU	A	45	-6.257	72.509	23.009	1.00	88.79	A
ATOM	379	CG	LEU	A	45	-5.940	73.339	21.770	1.00	90.46	A
ATOM	380	CD1	LEU	A	45	-7.147	73.370	20.837	1.00	91.58	A
ATOM	381	CD2	LEU	A	45	-5.596	74.779	22.173	1.00	90.84	A
ATOM	382	C	LEU	A	45	-8.656	71.944	23.376	1.00	88.30	A
ATOM	383	O	LEU	A	45	-9.507	71.665	24.291	1.00	87.82	A
ATOM	384	NT	LEU	A	45	-8.614	71.561	22.151	1.00	88.77	A
ATOM	385	CA	ACE	B	0	29.175	18.175	21.874	1.00	35.90	B
ATOM	386	C	ACE	B	0	27.867	18.849	22.146	1.00	36.69	B
ATOM	387	O	ACE	B	0	27.836	20.078	22.299	1.00	33.24	B
ATOM	388	N	ARG	B	1	26.771	18.065	22.218	1.00	32.69	B
ATOM	389	CA	ARG	B	1	25.440	18.590	22.450	1.00	34.24	B
ATOM	390	CB	ARG	B	1	24.436	17.446	22.644	1.00	33.49	B
ATOM	391	CG	ARG	B	1	22.976	17.878	22.651	1.00	32.92	B
ATOM	392	CD	ARG	B	1	22.436	18.177	21.260	1.00	34.95	B
ATOM	393										

Figure 11G

Figure 11H

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ATOM	472	OE1	GLU	B	10	27.979	32.751	24.499	1.00	67.38	B
ATOM	473	OE2	GLU	B	10	28.824	33.173	26.485	1.00	66.28	B
ATOM	474	C	GLU	B	10	23.515	33.211	25.757	1.00	65.16	B
ATOM	475	O	GLU	B	10	23.261	34.351	26.141	1.00	65.81	B
ATOM	476	N	GLU	B	11	23.255	32.785	24.524	1.00	66.64	B
ATOM	477	CA	GLU	B	11	22.617	33.637	23.529	1.00	67.59	B
ATOM	478	CB	GLU	B	11	22.348	32.832	22.252	1.00	68.72	B
ATOM	479	CG	GLU	B	11	21.735	33.636	21.117	1.00	72.88	B
ATOM	480	CD	GLU	B	11	22.556	34.864	20.767	1.00	74.80	B
ATOM	481	OE1	GLU	B	11	23.775	34.717	20.526	1.00	75.81	B
ATOM	482	OE2	GLU	B	11	21.978	35.975	20.731	1.00	74.99	B
ATOM	483	C	GLU	B	11	21.307	34.197	24.098	1.00	67.17	B
ATOM	484	O	GLU	B	11	20.998	35.381	23.918	1.00	68.06	B
ATOM	485	N	ILE	B	12	20.541	33.348	24.784	1.00	64.61	B
ATOM	486	CA	ILE	B	12	19.288	33.790	25.389	1.00	61.65	B
ATOM	487	CB	ILE	B	12	18.458	32.600	25.926	1.00	62.84	B
ATOM	488	CG2	ILE	B	12	17.416	33.094	26.940	1.00	62.63	B
ATOM	489	CG1	ILE	B	12	17.799	31.864	24.750	1.00	62.13	B
ATOM	490	CD1	ILE	B	12	16.910	30.698	25.156	1.00	61.39	B
ATOM	491	C	ILE	B	12	19.553	34.776	26.522	1.00	58.17	B
ATOM	492	O	ILE	B	12	19.010	35.881	26.523	1.00	55.05	B
ATOM	493	N	GLU	B	13	20.388	34.384	27.479	1.00	55.87	B
ATOM	494	CA	GLU	B	13	20.710	35.268	28.600	1.00	54.71	B
ATOM	495	CB	GLU	B	13	21.817	34.669	29.477	1.00	50.19	B
ATOM	496	CG	GLU	B	13	21.447	33.331	30.109	1.00	49.30	B
ATOM	497	CD	GLU	B	13	22.577	32.729	30.933	1.00	49.10	B
ATOM	498	OE1	GLU	B	13	23.741	32.765	30.472	1.00	50.79	B
ATOM	499	OE2	GLU	B	13	22.304	32.194	32.027	1.00	47.00	B
ATOM	500	C	GLU	B	13	21.166	36.512	28.047	1.00	55.57	B
ATOM	501	O	GLU	B	13	20.790	37.667	28.557	1.00	56.33	B
ATOM	502	N	SER	B	14	21.950	36.559	26.977	1.00	56.02	B
ATOM	503	CA	SER	B	14	22.468	37.763	26.350	1.00	55.71	B
ATOM	504	CB	SER	B	14	23.488	37.389	25.278	1.00	54.62	B
ATOM	505	OG	SER	B	14	23.968	38.550	24.629	1.00	56.74	B
ATOM	506	C	SER	B	14	21.366	38.624	25.736	1.00	55.96	B
ATOM	507	O	SER	B	14	21.469	39.854	25.696	1.00	54.91	B
ATOM	508	N	LYS	B	15	20.310	37.979	25.263	1.00	55.94	B
ATOM	509	CA	LYS	B	15	19.208	38.704	24.650	1.00	56.72	B
ATOM	510	CB	LYS	B	15	18.454	37.779	23.693	1.00	55.67	B
ATOM	511	CG	LYS	B	15	17.494	38.484	22.772	1.00	58.33	B
ATOM	512	CD	LYS	B	15	17.000	37.527	21.705	1.00	59.89	B
ATOM	513	CE	LYS	B	15	16.440	38.282	20.518	1.00	60.44	B
ATOM	514	NZ	LYS	B	15	16.020	37.375	19.412	1.00	63.67	B
ATOM	515	C	LYS	B	15	18.282	39.207	25.748	1.00	56.31	B
ATOM	516	O	LYS	B	15	17.716	40.296	25.661	1.00	56.65	B
ATOM	517	N	GLN	B	16	18.146	38.403	26.791	1.00	56.76	B
ATOM	518	CA	GLN	B	16	17.293	38.748	27.911	1.00	57.28	B
ATOM	519	CB	GLN	B	16	17.306	37.604	28.923	1.00	56.94	B
ATOM	520	CG	GLN	B	16	16.000	37.394	29.652	1.00	55.90	B
ATOM	521	CD	GLN	B	16	15.908	36.017	30.300	1.00	56.24	B
ATOM	522	OE1	GLN	B	16	16.613	35.722	31.263	1.00	57.78	B
ATOM	523	NE2	GLN	B	16	15.044	35.160	29.760	1.00	55.69	B
ATOM	524	C	GLN	B	16	17.825	40.040	28.528	1.00	58.82	B
ATOM	525	O	GLN	B	16	17.049	40.929	28.905	1.00	59.68	B
ATOM	526	N	LYS	B	17	19.148	40.163	28.621	1.00	59.44	B
ATOM	527	CA	LYS	B	17	19.711	41.379	29.189	1.00	59.84	B
ATOM	528	CB	LYS	B	17	21.228	41.275	29.386	1.00	60.80	B
ATOM	529	CG	LYS	B	17	21.740	42.343	30.356	1.00	64.52	B
ATOM	530	CD	LYS	B	17	23.250	42.325	30.576	1.00	65.30	B
ATOM	531	CE	LYS	B	17	24.008	42.784	29.344	1.00	67.22	B

Figure 111

Figure 11J

Figure 11K

Figure 11L

001192-008

ATOM	712	CB	GLN	B	39	4.629	69.583	34.197	1.00	33.05	B
ATOM	713	CG	GLN	B	39	5.436	70.614	34.985	1.00	43.49	B
ATOM	714	CD	GLN	B	39	4.822	72.026	35.008	1.00	48.65	B
ATOM	715	OE1	GLN	B	39	4.889	72.774	34.021	1.00	51.46	B
ATOM	716	NE2	GLN	B	39	4.220	72.389	36.143	1.00	47.35	B
ATOM	717	C	GLN	B	39	2.343	70.417	33.843	1.00	31.81	B
ATOM	718	O	GLN	B	39	2.125	71.574	34.206	1.00	31.08	B
ATOM	719	N	LEU	B	40	1.897	69.904	32.703	1.00	31.01	B
ATOM	720	CA	LEU	B	40	1.065	70.671	31.807	1.00	33.41	B
ATOM	721	CB	LEU	B	40	0.872	69.886	30.517	1.00	32.63	B
ATOM	722	CG	LEU	B	40	-0.126	70.405	29.482	1.00	34.65	B
ATOM	723	OE1	LEU	B	40	0.171	71.843	29.092	1.00	35.24	B
ATOM	724	CD2	LEU	B	40	-0.058	69.495	28.281	1.00	35.90	B
ATOM	725	C	LEU	B	40	-0.289	70.943	32.469	1.00	36.85	B
ATOM	726	O	LEU	B	40	-0.874	72.010	32.314	1.00	37.81	B
ATOM	727	N	GLN	B	41	-0.768	69.964	33.215	1.00	36.13	B
ATOM	728	CA	GLN	B	41	-2.046	70.063	33.894	1.00	37.74	B
ATOM	729	CB	GLN	B	41	-2.369	68.718	34.517	1.00	41.31	B
ATOM	730	CG	GLN	B	41	-3.833	68.459	34.735	1.00	47.08	B
ATOM	731	CD	GLN	B	41	-4.070	67.139	35.420	1.00	54.09	B
ATOM	732	OE1	GLN	B	41	-3.517	66.102	35.013	1.00	55.42	B
ATOM	733	NE2	GLN	B	41	-4.908	67.154	36.461	1.00	54.90	B
ATOM	734	C	GLN	B	41	-2.039	71.148	34.974	1.00	39.95	B
ATOM	735	O	GLN	B	41	-2.988	71.925	35.089	1.00	29.23	B
ATOM	736	N	ALA	B	42	-0.972	71.194	35.767	1.00	39.05	B
ATOM	737	CA	ALA	B	42	-0.845	72.188	36.824	1.00	38.56	B
ATOM	738	CB	ALA	B	42	0.345	71.852	37.757	1.00	34.14	B
ATOM	739	C	ALA	B	42	-0.647	73.566	36.228	1.00	40.18	B
ATOM	740	O	ALA	B	42	-1.139	74.560	36.765	1.00	41.44	B
ATOM	741	N	ARG	B	43	0.078	73.634	35.118	1.00	41.82	B
ATOM	742	CA	ARG	B	43	0.340	74.910	34.476	1.00	43.71	B
ATOM	743	CB	ARG	B	43	1.242	74.713	33.260	1.00	47.26	B
ATOM	744	CG	ARG	B	43	1.703	75.997	32.592	1.00	51.08	B
ATOM	745	CD	ARG	B	43	2.582	75.677	31.401	1.00	54.95	B
ATOM	746	NE	ARG	B	43	3.778	74.947	31.813	1.00	57.04	B
ATOM	747	CZ	ARG	B	43	4.819	75.499	32.428	1.00	56.95	B
ATOM	748	NH1	ARG	B	43	4.816	76.794	32.703	1.00	55.89	B
ATOM	749	NH2	ARG	B	43	5.858	74.753	32.781	1.00	57.00	B
ATOM	750	C	ARG	B	43	-0.987	75.521	34.048	1.00	42.38	B
ATOM	751	O	ARG	B	43	-1.308	76.657	34.398	1.00	41.41	B
ATOM	752	N	ILE	B	44	-1.756	74.736	33.310	1.00	41.63	B
ATOM	753	CA	ILE	B	44	-3.059	75.143	32.810	1.00	43.24	B
ATOM	754	CB	ILE	B	44	-3.634	74.085	31.866	1.00	44.23	B
ATOM	755	CG2	ILE	B	44	-5.083	74.403	31.592	1.00	45.04	B
ATOM	756	CG1	ILE	B	44	-2.778	73.964	30.600	1.00	47.45	B
ATOM	757	CD1	ILE	B	44	-3.156	72.745	29.719	1.00	49.42	B
ATOM	758	C	ILE	B	44	-4.081	75.306	33.935	1.00	42.37	B
ATOM	759	O	ILE	B	44	-4.422	76.416	34.332	1.00	42.08	B
ATOM	760	N	LEU	B	45	-4.573	74.162	34.398	1.00	42.20	B
ATOM	761	CA	LEU	B	45	-5.564	74.042	35.450	1.00	43.16	B
ATOM	762	CB	LEU	B	45	-6.041	72.592	35.513	1.00	46.08	B
ATOM	763	CG	LEU	B	45	-6.459	72.001	34.162	1.00	47.45	B
ATOM	764	CD1	LEU	B	45	-7.011	70.594	34.257	1.00	47.51	B
ATOM	765	CD2	LEU	B	45	-7.504	72.899	33.521	1.00	48.61	B
ATOM	766	C	LEU	B	45	-5.016	74.467	36.810	1.00	42.48	B
ATOM	767	O	LEU	B	45	-5.674	75.260	37.483	1.00	45.15	B
ATOM	768	NT	LEU	B	45	-3.945	73.987	37.206	1.00	45.66	B
ATOM	769	CA	ACE	C	0	15.143	11.286	26.819	1.00	82.49	C
ATOM	770	C	ACE	C	0	14.856	12.476	27.674	1.00	82.44	C
ATOM	771	O	ACE	C	0	13.700	12.858	27.851	1.00	84.06	C

Figure 11M

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ATOM	772	N	ARG	C	1	15.890	13.103	28.220	1.00	82.91	C
ATOM	773	CA	ARG	C	1	15.663	14.253	29.073	1.00	83.87	C
ATOM	774	CB	ARG	C	1	16.156	13.970	30.491	1.00	83.74	C
ATOM	775	CG	ARG	C	1	15.769	15.065	31.456	1.00	83.47	C
ATOM	776	CD	ARG	C	1	14.340	15.542	31.156	1.00	81.66	C
ATOM	777	NE	ARG	C	1	13.249	14.748	31.726	1.00	81.00	C
ATOM	778	CZ	ARG	C	1	13.069	13.434	31.597	1.00	79.16	C
ATOM	779	NH1	ARG	C	1	13.901	12.678	30.889	1.00	79.80	C
ATOM	780	NH2	ARG	C	1	12.010	12.875	32.168	1.00	79.18	C
ATOM	781	C	ARG	C	1	16.282	15.541	28.550	1.00	85.03	C
ATOM	782	O	ARG	C	1	15.975	16.644	29.016	1.00	85.10	C
ATOM	783	N	MET	C	2	17.169	15.394	27.581	1.00	85.40	C
ATOM	784	CA	MET	C	2	17.778	16.568	27.012	1.00	86.91	C
ATOM	785	CB	MET	C	2	19.063	16.215	26.290	1.00	88.20	C
ATOM	786	CG	MET	C	2	19.711	17.410	25.653	1.00	89.72	C
ATOM	787	SD	MET	C	2	21.192	16.917	24.823	1.00	94.98	C
ATOM	788	CE	MET	C	2	22.111	16.349	26.176	1.00	91.53	C
ATOM	789	C	MET	C	2	16.771	17.154	26.036	1.00	87.44	C
ATOM	790	O	MET	C	2	16.699	18.368	25.872	1.00	89.05	C
ATOM	791	N	LYS	C	3	16.001	16.278	25.391	1.00	85.66	C
ATOM	792	CA	LYS	C	3	14.973	16.712	24.444	1.00	83.09	C
ATOM	793	CB	LYS	C	3	14.033	15.551	24.107	1.00	82.50	C
ATOM	794	CG	LYS	C	3	12.921	15.895	23.122	1.00	81.54	C
ATOM	795	CD	LYS	C	3	11.926	14.746	23.005	1.00	81.93	C
ATOM	796	CE	LYS	C	3	10.866	15.022	21.952	1.00	80.79	C
ATOM	797	NZ	LYS	C	3	10.154	16.300	22.214	1.00	82.56	C
ATOM	798	C	LYS	C	3	14.177	17.809	25.128	1.00	82.12	C
ATOM	799	O	LYS	C	3	14.053	18.925	24.617	1.00	81.76	C
ATOM	800	N	GLN	C	4	13.651	17.474	26.302	1.00	80.32	C
ATOM	801	CA	GLN	C	4	12.856	18.401	27.094	1.00	78.87	C
ATOM	802	CB	GLN	C	4	12.504	17.759	28.440	1.00	79.91	C
ATOM	803	CG	GLN	C	4	12.122	16.275	28.356	1.00	80.66	C
ATOM	804	CD	GLN	C	4	11.087	15.971	27.280	1.00	81.02	C
ATOM	805	OE1	GLN	C	4	11.348	16.140	26.082	1.00	79.52	C
ATOM	806	NE2	GLN	C	4	9.907	15.516	27.701	1.00	81.57	C
ATOM	807	C	GLN	C	4	13.667	19.680	27.299	1.00	77.97	C
ATOM	808	O	GLN	C	4	13.186	20.781	27.032	1.00	78.45	C
ATOM	809	N	ILE	C	5	14.902	19.530	27.772	1.00	76.07	C
ATOM	810	CA	ILE	C	5	15.785	20.670	27.974	1.00	73.89	C
ATOM	811	CB	ILE	C	5	17.206	20.220	28.381	1.00	73.07	C
ATOM	812	CG2	ILE	C	5	18.175	21.388	28.264	1.00	71.17	C
ATOM	813	CG1	ILE	C	5	17.174	19.623	29.795	1.00	72.84	C
ATOM	814	CD1	ILE	C	5	18.518	19.113	30.285	1.00	71.39	C
ATOM	815	C	ILE	C	5	15.880	21.423	26.656	1.00	74.14	C
ATOM	816	O	ILE	C	5	15.939	22.651	26.628	1.00	73.70	C
ATOM	817	N	GLU	C	6	15.895	20.664	25.567	1.00	73.88	C
ATOM	818	CA	GLU	C	6	15.972	21.222	24.225	1.00	73.70	C
ATOM	819	CB	GLU	C	6	16.395	20.135	23.229	1.00	72.24	C
ATOM	820	CG	GLU	C	6	17.787	19.535	23.464	1.00	69.96	C
ATOM	821	CD	GLU	C	6	18.922	20.428	22.985	1.00	68.01	C
ATOM	822	OE1	GLU	C	6	19.044	21.575	23.461	1.00	65.93	C
ATOM	823	OE2	GLU	C	6	19.702	19.963	22.125	1.00	68.18	C
ATOM	824	C	GLU	C	6	14.602	21.773	23.842	1.00	74.50	C
ATOM	825	O	GLU	C	6	14.476	22.546	22.890	1.00	75.27	C
ATOM	826	N	ASP	C	7	13.577	21.372	24.587	1.00	74.82	C
ATOM	827	CA	ASP	C	7	12.218	21.838	24.327	1.00	76.17	C
ATOM	828	CB	ASP	C	7	11.195	20.742	24.644	1.00	77.40	C
ATOM	829	CG	ASP	C	7	11.408	19.488	23.818	1.00	78.45	C
ATOM	930	OD1	ASP	C	7	11.518	19.609	22.580	1.00	79.26	C
ATOM	931	OD2	ASP	C	7	11.452	18.380	24.404	1.00	79.10	C

Figure 11N

ATOM	832	C	ASP	C	7	11.906	23.079	25.160	1.00	75.92
ATOM	833	O	ASP	C	7	11.379	24.063	24.643	1.00	77.15
ATOM	834	N	LYS	C	8	12.223	23.024	26.452	1.00	74.05
ATOM	835	CA	LYS	C	8	11.987	24.157	27.336	1.00	71.19
ATOM	836	CB	LYS	C	8	12.565	23.886	28.727	1.00	72.69
ATOM	837	CG	LYS	C	8	11.647	24.225	29.901	1.00	72.96
ATOM	838	CD	LYS	C	8	10.428	23.312	29.921	1.00	75.00
ATOM	839	CE	LYS	C	8	9.587	23.471	31.197	1.00	76.69
ATOM	840	NZ	LYS	C	8	8.998	24.829	31.389	1.00	73.68
ATOM	841	C	LYS	C	8	12.727	25.319	26.679	1.00	69.24
ATOM	842	O	LYS	C	8	12.295	26.469	26.745	1.00	69.77
ATOM	843	N	ILE	C	9	13.855	25.013	26.046	1.00	65.63
ATOM	844	CA	ILE	C	9	14.609	26.053	25.362	1.00	64.27
ATOM	845	CB	ILE	C	9	15.950	25.511	24.812	1.00	62.88
ATOM	846	CG	ILE	C	9	16.585	26.515	23.871	1.00	62.42
ATOM	847	CG1	ILE	C	9	16.900	25.231	25.976	1.00	64.19
ATOM	848	CD1	ILE	C	9	18.244	24.656	25.557	1.00	64.32
ATOM	849	C	ILE	C	9	13.756	26.605	24.223	1.00	63.69
ATOM	850	O	ILE	C	9	13.735	27.816	23.985	1.00	63.21
ATOM	851	N	GLU	C	10	13.036	25.712	23.543	1.00	62.89
ATOM	852	CA	GLU	C	10	12.163	26.092	22.429	1.00	62.21
ATOM	853	CB	GLU	C	10	11.419	24.865	21.886	1.00	63.68
ATOM	854	CG	GLU	C	10	10.451	25.180	20.751	1.00	66.12
ATOM	855	CD	GLU	C	10	9.688	23.961	20.251	1.00	67.29
ATOM	856	OE1	GLU	C	10	8.874	24.125	19.318	1.00	69.26
ATOM	857	OE2	GLU	C	10	9.894	22.845	20.780	1.00	68.71
ATOM	858	C	GLU	C	10	11.142	27.147	22.831	1.00	60.65
ATOM	859	O	GLU	C	10	10.991	28.157	22.147	1.00	60.16
ATOM	860	N	GLU	C	11	10.429	26.898	23.927	1.00	60.41
ATOM	861	CA	GLU	C	11	9.415	27.826	24.435	1.00	58.98
ATOM	862	CB	GLU	C	11	8.736	27.243	25.683	1.00	59.35
ATOM	863	CG	GLU	C	11	9.709	26.588	26.652	1.00	61.78
ATOM	864	CD	GLU	C	11	9.376	26.801	28.127	1.00	63.00
ATOM	865	OE1	GLU	C	11	9.329	27.972	28.563	1.00	64.82
ATOM	866	OE2	GLU	C	11	9.184	25.804	28.855	1.00	60.50
ATOM	867	C	GLU	C	11	10.021	29.186	24.772	1.00	58.03
ATOM	868	O	GLU	C	11	9.519	30.229	24.351	1.00	59.21
ATOM	869	N	ILE	C	12	11.103	29.178	25.532	1.00	56.15
ATOM	870	CA	ILE	C	12	11.765	30.415	25.902	1.00	56.41
ATOM	871	CB	ILE	C	12	13.043	30.139	26.710	1.00	55.29
ATOM	872	CG2	ILE	C	12	13.791	31.448	26.950	1.00	52.26
ATOM	873	CG1	ILE	C	12	12.680	29.404	28.008	1.00	55.06
ATOM	874	CD1	ILE	C	12	13.858	29.085	28.914	1.00	55.11
ATOM	87									

Figure 11O

Figure 11P

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ATOM	952	O	ASN	C	31	5.649	43.697	19.309	1.00	59.75	C
ATOM	953	N	GLU	C	22	6.255	42.645	21.206	1.00	56.32	C
ATOM	954	CA	GLU	C	22	5.411	43.489	22.030	1.00	53.64	C
ATOM	955	CB	GLU	C	22	5.014	42.756	23.313	1.00	55.42	C
ATOM	956	CG	GLU	C	22	3.786	43.357	23.967	1.00	60.12	C
ATOM	957	CD	GLU	C	22	2.506	43.082	23.188	1.00	61.82	C
ATOM	958	OE1	GLU	C	22	2.559	43.024	21.942	1.00	62.49	C
ATOM	959	OE2	GLU	C	22	1.435	42.954	23.825	1.00	63.39	C
ATOM	960	C	GLU	C	22	6.158	44.791	22.344	1.00	50.89	C
ATOM	961	O	GLU	C	22	5.573	45.873	22.282	1.00	49.72	C
ATOM	962	N	ILE	C	23	7.448	44.691	22.665	1.00	47.08	C
ATOM	963	CA	ILE	C	23	8.259	45.876	22.948	1.00	46.40	C
ATOM	964	CB	ILE	C	23	9.752	45.504	23.290	1.00	47.53	C
ATOM	965	CG2	ILE	C	23	10.707	46.653	22.910	1.00	44.86	C
ATOM	966	CG1	ILE	C	23	9.898	45.178	24.783	1.00	45.28	C
ATOM	967	CD1	ILE	C	23	9.101	44.004	25.256	1.00	45.91	C
ATOM	968	C	ILE	C	23	8.222	46.771	21.717	1.00	46.76	C
ATOM	969	O	ILE	C	23	8.317	47.999	21.822	1.00	46.87	C
ATOM	970	N	ALA	C	24	8.071	46.137	20.556	1.00	47.50	C
ATOM	971	CA	ALA	C	24	8.002	46.828	19.271	1.00	46.10	C
ATOM	972	CB	ALA	C	24	8.112	45.809	18.126	1.00	44.51	C
ATOM	973	C	ALA	C	24	6.706	47.644	19.137	1.00	45.09	C
ATOM	974	O	ALA	C	24	6.741	48.810	18.752	1.00	43.05	C
ATOM	975	N	ARG	C	25	5.566	47.034	19.445	1.00	43.64	C
ATOM	976	CA	ARG	C	25	4.301	47.753	19.346	1.00	45.79	C
ATOM	977	CB	ARG	C	25	3.115	46.807	19.581	1.00	44.07	C
ATOM	978	CG	ARG	C	25	3.045	45.680	18.564	1.00	48.16	C
ATOM	979	CD	ARG	C	25	1.677	44.986	18.458	1.00	50.13	C
ATOM	980	NE	ARG	C	25	1.216	44.299	19.664	1.00	54.12	C
ATOM	981	CZ	ARG	C	25	0.665	44.888	20.725	1.00	58.36	C
ATOM	982	NH1	ARG	C	25	0.475	46.206	20.756	1.00	59.26	C
ATOM	983	NH2	ARG	C	25	0.268	44.148	21.755	1.00	59.83	C
ATOM	984	C	ARG	C	25	4.257	48.908	20.345	1.00	47.24	C
ATOM	985	O	ARG	C	25	3.941	50.038	19.978	1.00	50.68	C
ATOM	986	N	ILE	C	26	4.584	48.617	21.601	1.00	47.54	C
ATOM	987	CA	ILE	C	26	4.591	49.608	22.673	1.00	44.40	C
ATOM	988	CB	ILE	C	26	5.042	48.959	24.001	1.00	43.91	C
ATOM	989	CG2	ILE	C	26	5.259	50.026	25.071	1.00	45.47	C
ATOM	990	CG1	ILE	C	26	4.010	47.930	24.450	1.00	42.59	C
ATOM	991	CD1	ILE	C	26	4.445	47.138	25.663	1.00	40.19	C
ATOM	992	C	ILE	C	26	5.532	50.766	22.379	1.00	44.58	C
ATOM	993	O	ILE	C	26	5.193	51.935	22.564	1.00	42.04	C
ATOM	994	N	LYS	C	27	6.721	50.422	21.919	1.00	46.75	C
ATOM	995	CA	LYS	C	27	7.754	51.394	21.619	1.00	51.78	C
ATOM	996	CB	LYS	C	27	8.915	50.674	20.951	1.00	54.23	C
ATOM	997	CG	LYS	C	27	10.184	51.465	20.863	1.00	57.21	C
ATOM	998	CD	LYS	C	27	11.313	50.479	20.644	1.00	60.99	C
ATOM	999	CE	LYS	C	27	12.660	51.064	21.014	1.00	62.83	C
ATOM	1000	NZ	LYS	C	27	12.750	50.060	20.828	1.00	64.49	C
ATOM	1001	C	LYS	C	27	7.299	52.556	20.750	1.00	52.44	C
ATOM	1002	O	LYS	C	27	7.334	53.710	21.165	1.00	54.11	C
ATOM	1003	N	LYS	C	28	6.877	52.239	19.538	1.00	53.88	C
ATOM	1004	CA	LYS	C	28	6.435	53.250	18.599	1.00	55.29	C
ATOM	1005	CB	LYS	C	28	6.169	52.582	17.249	1.00	57.59	C
ATOM	1006	CG	LYS	C	28	7.390	51.841	16.717	1.00	59.15	C
ATOM	1007	CD	LYS	C	28	7.041	50.830	15.635	1.00	62.19	C
ATOM	1008	CE	LYS	C	28	8.292	50.088	15.158	1.00	63.12	C
ATOM	1009	NZ	LYS	C	28	9.029	49.411	16.282	1.00	65.69	C
ATOM	1010	C	LYS	C	28	5.187	53.931	19.122	1.00	55.14	C
ATOM	1011	O	LYS	C	28	5.052	55.147	19.030	1.00	57.43	C

Figure 11Q

ATOM	1012	N	LEU	C	29	4.275	53.138	19.671	1.00	52.27	C
ATOM	1013	CA	LEU	C	29	3.025	53.649	20.214	1.00	51.04	C
ATOM	1014	CB	LEU	C	29	2.281	52.485	20.855	1.00	51.13	C
ATOM	1015	CG	LEU	C	29	0.776	52.493	21.051	1.00	50.66	C
ATOM	1016	CD1	LEU	C	29	0.051	52.868	19.755	1.00	51.59	C
ATOM	1017	CD2	LEU	C	29	0.389	51.100	21.491	1.00	50.29	C
ATOM	1018	C	LEU	C	29	3.347	54.739	21.245	1.00	50.83	C
ATOM	1019	O	LEU	C	29	2.739	55.805	21.269	1.00	53.58	C
ATOM	1020	N	LEU	C	30	4.327	54.457	22.089	1.00	50.52	C
ATOM	1021	CA	LEU	C	30	4.767	55.397	23.100	1.00	48.88	C
ATOM	1022	CB	LEU	C	30	5.813	54.730	23.997	1.00	48.03	C
ATOM	1023	CG	LEU	C	30	6.485	55.530	25.113	1.00	47.31	C
ATOM	1024	CD1	LEU	C	30	5.447	56.172	26.033	1.00	45.24	C
ATOM	1025	CD2	LEU	C	30	7.398	54.575	25.889	1.00	48.28	C
ATOM	1026	C	LEU	C	30	5.374	56.587	22.379	1.00	48.83	C
ATOM	1027	O	LEU	C	30	5.020	57.736	22.642	1.00	48.40	C
ATOM	1028	N	GLN	C	31	6.298	56.289	21.470	1.00	49.93	C
ATOM	1029	CA	GLN	C	31	6.983	57.304	20.670	1.00	52.00	C
ATOM	1030	CB	GLN	C	31	7.822	56.609	19.590	1.00	55.56	C
ATOM	1031	CG	GLN	C	31	8.628	57.513	18.645	1.00	61.26	C
ATOM	1032	CD	GLN	C	31	9.768	58.241	19.333	1.00	64.58	C
ATOM	1033	OE1	GLN	C	31	10.233	57.818	20.391	1.00	68.00	C
ATOM	1034	NE2	GLN	C	31	10.249	59.318	18.715	1.00	64.37	C
ATOM	1035	C	GLN	C	31	5.947	58.225	20.009	1.00	49.56	C
ATOM	1036	O	GLN	C	31	6.192	59.415	19.814	1.00	45.68	C
ATOM	1037	N	LEU	C	32	4.793	57.657	19.675	1.00	47.64	C
ATOM	1038	CA	LEU	C	32	3.723	58.401	19.034	1.00	48.95	C
ATOM	1039	CB	LEU	C	32	2.689	57.433	18.461	1.00	50.72	C
ATOM	1040	CG	LEU	C	32	1.602	57.925	17.502	1.00	51.93	C
ATOM	1041	CD1	LEU	C	32	2.209	58.293	16.154	1.00	50.26	C
ATOM	1042	CD2	LEU	C	32	0.554	56.840	17.313	1.00	51.55	C
ATOM	1043	C	LEU	C	32	3.070	59.295	20.077	1.00	49.32	C
ATOM	1044	O	LEU	C	32	3.040	60.519	19.929	1.00	50.01	C
ATOM	1045	N	THR	C	33	2.545	58.659	21.125	1.00	48.74	C
ATOM	1046	CA	THR	C	33	1.878	59.324	22.246	1.00	43.86	C
ATOM	1047	CB	THR	C	33	1.643	58.329	23.400	1.00	46.04	C
ATOM	1048	OG1	THR	C	33	0.707	57.332	22.977	1.00	47.18	C
ATOM	1049	CG2	THR	C	33	1.121	59.039	24.639	1.00	42.89	C
ATOM	1050	C	THR	C	33	2.683	60.494	22.771	1.00	41.04	C
ATOM	1051	O	THR	C	33	2.132	61.537	23.122	1.00	39.26	C
ATOM	1052	N	VAL	C	34	3.992	60.303	22.843	1.00	38.83	C
ATOM	1053	CA	VAL	C	34	4.886	61.346	23.301	1.00	36.90	C
ATOM	1054	CB	VAL	C	34	6.329	60.825	23.377	1.00	33.71	C
ATOM	1055	CG1	VAL	C	34	7.270	61.907	23.904	1.00	29.40	C
ATOM	1056	CG2	VAL	C	34	6.366	59.590	24.251	1.00	31.78	C
ATOM	1057	C	VAL	C	34	4.795	62.437	22.254	1.00	38.65	C
ATOM	1058	O	VAL	C	34	4.489	63.595	22.556	1.00	39.38	C
ATOM	1059	N	TRP	C	35	5.049	62.038	21.010	1.00	42.18	C
ATOM	1060	CA	TRP	C	35	5.002	62.937	19.868	1.00	40.00	C
ATOM	1061	CB	TRP	C	35	4.991	62.134	18.563	1.00	40.06	C
ATOM	1062	CG	TRP	C	35	4.848	63.020	17.399	1.00	36.56	C
ATOM	1063	CD2	TRP	C	35	3.696	63.161	16.561	1.00	36.91	C
ATOM	1064	CE2	TRP	C	35	3.968	64.212	15.673	1.00	41.20	C
ATOM	1065	CE3	TRP	C	35	2.457	62.505	16.503	1.00	40.31	C
ATOM	1066	CD1	TRP	C	35	5.748	63.944	16.974	1.00	35.30	C
ATOM	1067	NE1	TRP	C	35	5.228	64.673	15.945	1.00	39.45	C
ATOM	1068	CE2	TRP	C	35	3.037	64.643	14.704	1.00	38.75	C
ATOM	1069	CE3	TRP	C	35	1.528	62.934	15.541	1.00	39.54	C
ATOM	1070	CH2	TRP	C	35	1.827	63.984	14.651	1.00	41.30	C
ATOM	1071	C	TRP	C	35	3.764	63.833	19.901	1.00	39.80	C

Figure 11R

Figure 11S

ATOM	1132	NH1	ARG	C	43	-5.127	70.277	19.051	1.00	41.40	C
ATOM	1133	NH2	ARG	C	43	-6.676	72.288	18.421	1.00	44.00	C
ATOM	1134	C	ARG	C	43	-0.568	75.347	21.883	1.00	37.96	C
ATOM	1135	O	ARG	C	43	-1.049	76.425	21.558	1.00	36.78	C
ATOM	1136	N	ILE	C	44	-0.434	74.971	23.151	1.00	41.66	C
ATOM	1137	CA	ILE	C	44	-0.901	75.799	24.250	1.00	43.04	C
ATOM	1138	CB	ILE	C	44	-1.403	74.891	25.390	1.00	45.88	C
ATOM	1139	CG2	ILE	C	44	-1.802	75.717	26.594	1.00	46.21	C
ATOM	1140	CG1	ILE	C	44	-2.572	74.041	24.876	1.00	46.16	C
ATOM	1141	CD1	ILE	C	44	-2.926	72.877	25.786	1.00	50.31	C
ATOM	1142	C	ILE	C	44	0.109	76.802	24.807	1.00	41.15	C
ATOM	1143	O	ILE	C	44	-0.235	77.961	25.047	1.00	40.03	C
ATOM	1144	N	LEU	C	45	1.345	76.350	25.005	1.00	40.33	C
ATOM	1145	CA	LEU	C	45	2.401	77.184	25.579	1.00	39.81	C
ATOM	1146	CB	LEU	C	45	3.357	76.322	26.422	1.00	40.22	C
ATOM	1147	CG	LEU	C	45	2.889	75.608	27.694	1.00	40.80	C
ATOM	1148	CD1	LEU	C	45	1.733	74.714	27.364	1.00	42.51	C
ATOM	1149	CD2	LEU	C	45	4.029	74.789	28.299	1.00	39.44	C
ATOM	1150	C	LEU	C	45	3.215	77.953	24.540	1.00	38.95	C
ATOM	1151	O	LEU	C	45	3.071	77.689	23.327	1.00	39.83	C
ATOM	1152	NT	LEU	C	45	4.014	78.810	24.964	1.00	39.47	C
ATOM	1153	OH2	TIP	W	2	8.280	62.369	27.138	1.00	38.82	W
ATOM	1154	OH2	TIP	W	3	28.782	24.001	17.582	1.00	78.47	W
ATOM	1155	OH2	TIP	W	4	0.492	62.209	33.896	1.00	50.43	W
ATOM	1156	OH2	TIP	W	5	6.020	70.609	23.199	1.00	45.29	W
ATOM	1157	OH2	TIP	W	6	1.993	78.695	31.896	1.00	37.25	W
ATOM	1158	OH2	TIP	W	7	20.294	18.975	19.485	1.00	49.56	W
ATOM	1159	OH2	TIP	W	8	18.592	15.442	35.405	1.00	34.86	W
ATOM	1160	OH2	TIP	W	9	-5.907	64.337	32.524	1.00	31.24	W
ATOM	1161	OH2	TIP	W	10	11.567	18.853	30.945	1.00	47.94	W
ATOM	1162	OH2	TIP	W	11	-9.321	65.456	23.794	1.00	46.60	W
ATOM	1163	OH2	TIP	W	12	-2.842	65.953	28.078	1.00	59.15	W
ATOM	1164	OH2	TIP	W	13	-1.409	77.305	18.859	1.00	37.51	W
ATOM	1165	OH2	TIP	W	14	-5.597	64.224	37.408	1.00	39.02	W
ATOM	1166	OH2	TIP	W	15	-5.079	75.908	18.460	1.00	48.65	W
ATOM	1167	OH2	TIP	W	16	12.444	58.431	21.920	1.00	62.97	W
ATOM	1168	OH2	TIP	W	17	-12.927	70.555	24.520	1.00	61.81	W
ATOM	1169	OH2	TIP	W	18	14.897	23.356	34.046	1.00	40.13	W
ATOM	1170	OH2	TIP	W	19	3.154	40.721	28.964	1.00	29.89	W
ATOM	1171	OH2	TIP	W	20	4.290	81.951	24.440	1.00	44.83	W
ATOM	1172	OH2									

Figure 11T

ATOM	1192	OH2	TIP	W	41	21.799	33.921	37.475	1.00	98.23	W
ATOM	1193	OH2	TIP	W	42	12.296	24.508	37.800	1.00	73.10	W
ATOM	1194	OH2	TIP	W	43	10.910	28.524	40.599	1.00	65.23	W
ATOM	1195	OH2	TIP	W	44	8.726	30.065	36.214	1.00	62.46	W
ATOM	1196	OH2	TIP	W	45	20.748	34.061	34.804	1.00	62.12	W
ATOM	1197	OH2	TIP	W	46	7.462	29.159	29.170	1.00	88.23	W
ATOM	1198	OH2	TIP	W	47	7.466	31.280	33.124	1.00	56.10	W
ATOM	1199	OH2	TIP	W	48	6.666	26.619	36.241	1.00	52.76	W
ATOM	1200	OH2	TIP	W	49	3.823	27.148	35.557	1.00	92.76	W
ATOM	1201	OH2	TIP	W	50	7.608	28.183	32.367	1.00	83.54	W
ATOM	1202	OH2	TIP	W	51	10.064	35.767	38.975	1.00	68.12	W
ATOM	1203	OH2	TIP	W	52	14.649	36.973	38.236	1.00	73.09	W
ATOM	1204	OH2	TIP	W	53	16.799	36.406	39.778	1.00	48.69	W
ATOM	1205	OH2	TIP	W	54	15.456	39.954	39.598	1.00	48.97	W
ATOM	1206	OH2	TIP	W	55	8.442	41.891	37.753	1.00	57.63	W
ATOM	1207	OH2	TIP	W	56	9.926	44.040	39.986	1.00	80.20	W
ATOM	1208	OH2	TIP	W	57	3.713	35.630	32.034	1.00	65.94	W
ATOM	1209	OH2	TIP	W	58	4.004	32.569	30.481	1.00	98.02	W
ATOM	1210	OH2	TIP	W	59	13.514	45.594	36.374	1.00	45.92	W
ATOM	1211	OH2	TIP	W	60	12.274	44.358	32.693	1.00	69.72	W
ATOM	1212	OH2	TIP	W	61	-1.770	41.459	30.288	1.00	86.62	W
ATOM	1213	OH2	TIP	W	62	-0.747	39.619	34.003	1.00	85.57	W
ATOM	1214	OH2	TIP	W	63	2.370	42.056	36.997	1.00	63.26	W
ATOM	1215	OH2	TIP	W	64	7.646	47.813	26.559	1.00	86.77	W
ATOM	1216	OH2	TIP	W	65	-1.942	50.096	25.818	1.00	33.47	W
ATOM	1217	OH2	TIP	W	66	-0.455	48.262	24.057	1.00	48.49	W
ATOM	1218	OH2	TIP	W	67	-1.850	44.976	32.352	1.00	46.88	W
ATOM	1219	OH2	TIP	W	68	-4.779	47.469	30.587	1.00	53.38	W
ATOM	1220	OH2	TIP	W	69	-8.800	47.417	33.155	1.00	55.34	W
ATOM	1221	OH2	TIP	W	70	-7.762	51.374	35.608	1.00	72.46	W
ATOM	1222	OH2	TIP	W	71	5.493	50.307	35.418	1.00	63.93	W
ATOM	1223	OH2	TIP	W	72	-2.293	60.557	33.176	1.00	58.13	W
ATOM	1224	OH2	TIP	W	73	-3.891	59.956	22.859	1.00	42.99	W
ATOM	1225	OH2	TIP	W	74	-2.324	52.365	23.808	1.00	68.12	W
ATOM	1226	OH2	TIP	W	75	-4.610	53.603	23.534	1.00	99.86	W
ATOM	1227	OH2	TIP	W	76	-5.369	51.351	24.806	1.00	66.59	W
ATOM	1228	OH2	TIP	W	77	-9.158	53.927	27.711	1.00	59.38	W
ATOM	1229	OH2	TIP	W	78	-6.839	60.379	22.155	1.00	48.43	W
ATOM	1230	OH2	TIP	W	79	-7.811	55.209	31.835	1.00	63.25	W
ATOM	1231	OH2	TIP	W	80	-8.988	55.740	34.680	1.00	48.03	W

Figure 11U

001227-24454200

ATOM	1252	OH2	TIP	W	101	20.897	31.301	18.264	1.00	88.40	W
ATOM	1253	OH2	TIP	W	102	19.191	42.582	21.453	1.00	55.18	W
ATOM	1254	OH2	TIP	W	103	23.958	41.188	26.907	1.00	78.30	W
ATOM	1255	OH2	TIP	W	104	18.433	46.716	22.932	1.00	54.59	W
ATOM	1256	OH2	TIP	W	105	22.353	48.547	25.042	1.00	59.94	W
ATOM	1257	OH2	TIP	W	106	21.797	41.049	34.496	1.00	78.60	W
ATOM	1258	OH2	TIP	W	107	21.437	46.210	33.535	1.00	75.53	W
ATOM	1259	OH2	TIP	W	108	14.907	43.959	21.380	1.00	54.65	W
ATOM	1260	OH2	TIP	W	109	15.635	42.456	19.119	1.00	58.03	W
ATOM	1261	OH2	TIP	W	110	19.533	44.310	33.666	1.00	80.58	W
ATOM	1262	OH2	TIP	W	111	18.747	50.736	29.399	1.00	60.97	W
ATOM	1263	OH2	TIP	W	112	21.131	52.757	28.680	1.00	55.70	W
ATOM	1264	OH2	TIP	W	113	17.303	55.311	38.133	1.00	72.59	W
ATOM	1265	OH2	TIP	W	114	18.939	58.215	28.845	1.00	79.75	W
ATOM	1266	OH2	TIP	W	115	14.666	59.680	28.964	1.00	50.64	W
ATOM	1267	OH2	TIP	W	116	17.408	62.649	28.523	1.00	74.43	W
ATOM	1268	OH2	TIP	W	117	12.106	61.533	23.810	1.00	89.64	W
ATOM	1269	OH2	TIP	W	118	10.138	60.131	37.626	1.00	89.60	W
ATOM	1270	OH2	TIP	W	119	14.125	60.999	36.831	1.00	78.03	W
ATOM	1271	OH2	TIP	W	120	6.987	65.584	27.400	1.00	63.28	W
ATOM	1272	OH2	TIP	W	121	8.699	65.761	30.950	1.00	64.96	W
ATOM	1273	OH2	TIP	W	122	11.912	66.582	33.458	1.00	45.24	W
ATOM	1274	OH2	TIP	W	123	7.712	69.520	31.053	1.00	89.81	W
ATOM	1275	OH2	TIP	W	124	0.300	66.328	28.053	1.00	83.63	W
ATOM	1276	OH2	TIP	W	125	18.739	12.093	36.575	1.00	68.16	W
ATOM	1277	OH2	TIP	W	126	8.341	17.901	23.874	1.00	69.12	W
ATOM	1278	OH2	TIP	W	127	6.665	20.667	30.766	1.00	79.31	W
ATOM	1279	OH2	TIP	W	128	13.178	21.216	32.239	1.00	55.97	W
ATOM	1280	OH2	TIP	W	129	7.700	21.187	21.255	1.00	66.56	W
ATOM	1281	OH2	TIP	W	130	17.038	26.024	19.828	1.00	40.17	W
ATOM	1282	OH2	TIP	W	131	9.682	31.384	16.376	1.00	77.12	W
ATOM	1283	OH2	TIP	W	132	11.568	29.117	15.187	1.00	59.43	W
ATOM	1284	OH2	TIP	W	133	2.602	30.287	27.387	1.00	64.52	W
ATOM	1285	OH2	TIP	W	134	10.743	41.812	16.813	1.00	84.35	W
ATOM	1286	OH2	TIP	W	135	13.070	38.706	12.664	1.00	61.24	W
ATOM	1287	OH2	TIP	W	136	9.262	44.518	14.939	1.00	51.92	W
ATOM	1288	OH2	TIP	W	137	12.139	53.137	17.554	1.00	56.22	W
ATOM	1289	OH2	TIP	W	138	14.403	57.453	15.838	1.00	66.72	W
ATOM	1290	OH2	TIP	W	139	11.017	71.433	23.035	1.00	71.76	W
ATOM	1291	OH2	TIP	W	140	10.451	75.718	24.795	1.00	58.85	W
ATOM	1292	OH2	TIP	W	141	11.223	65.048	21.172	1.00	84.46	W
ATOM	1293	OH2	TIP	W	142	8.196	70.691	21.387	1.00	66.14	W
ATOM	1294	OH2	TIP	W	143	3.381	51.168	17.717	1.00	51.91	W
ATOM	1295	OH2	TIP	W	144	13.735	48.059	19.325	1.00	73.18	W
ATOM	1296	OH2	TIP	W	145	2.524	42.027	17.393	1.00	80.66	W
ATOM	1297	OH2	TIP	W	146	2.024	39.150	18.549	1.00	74.07	W
ATOM	1298	OH2	TIP	W	147	0.486	41.584	19.991	1.00	97.41	W
ATOM	1299	OH2	TIP	W	148	0.060	40.945	24.577	1.00	78.10	W
ATOM	1300	OH2	TIP	W	149	14.261	36.624	16.034	1.00	71.76	W
ATOM	1301	OH2	TIP	W	150	17.041	33.288	18.134	1.00	55.41	W
ATOM	1302	OH2	TIP	W	151	12.012	53.850	23.650	1.00	34.32	W
ATOM	1303	OH2	TIP	W	152	0.421	41.869	28.444	1.00	53.88	W
ATOM	1304	CL-1	CL	I	1	13.184	36.734	27.569	1.00	62.34	I
END											

Figure 11V